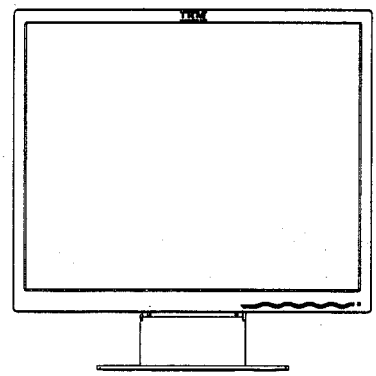
MODEL: 7574 (61G1861)

COLOR MONITOR
SERVICE MANUAL

CAUTION
BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS**
IN THIS MANUAL.



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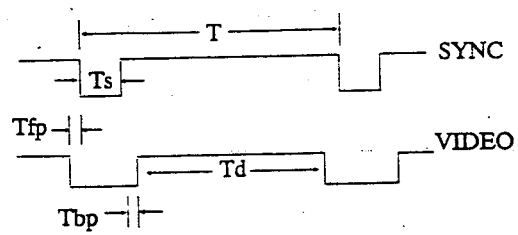
A. SPECIFICATIONS

1. SCREEN	17" 0.26mm Dot pitch Medium short, Anti-glare, ARASC coating
2. POWER SOURCE	120VAC, 60Hz / 220VAC, 50Hz Auto Switch.
3. POWER CONSUMPTION	130W(max)
4. INPUT SIGNAL VIDEO SYNC	 Analog R.G.B. : 0.7Vpp (positive) TTL level positive or negative Sync on Green, H + V
5. INTERFACE	15 Pin D type connector or BNC
6. RESOLUTION	1280 X 1024 pixels (Non-interlace)

7. RECOMMENDED TIMING CHART



A. PRESET TIMING FOR VGA (fH = 31.5KHz)

(1) 640 Dot x 350 Line Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.318	3.81	1.589	26.058	31.778
V	ms	0.985	0.064	1.716	11.504	14.268

* Frequencies : fd / 25.175MHz, fH / 31.468KHz, fV / 70.09Hz
* Interlace : NON
* SYNC polarity : H / positive, V / negative

(2) 720 Dot x 400 Line Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.318	3.81	1.589	26.058	31.778
V	ms	0.159	0.064	0.889	13.156	14.268

* Frequencies : fd / 28.322MHz, fH / 31.468KHz, fV / 70.09Hz
* Interlace : NON
* SYNC Polarity : H / negative, V / positive

(3) 640 Dot x 480 Line Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.318	3.81	1.589	26.058	31.778
V	ms	0.064	0.064	0.794	15.762	16.683

* Frequencies : fd / 25.175MHz, fH / 31.468KHz, fV / 59.94Hz
* Interlace : NON
* SYNC polarity : H / negative, V / negative

B. PRESET TIMING FOR 1280 Dot x 1024 Line Mode

64KHz Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.30	1.60	2.10	11.625	15.625
V	ms	0.053	0.106	0.513	13.599	14.272

* Frequencies : fd / 110MHz, fH /64.02KHz, fV /60.00Hz
* Interlace : NON
* SYNC polarity : H / positive, V / positive

C. PRESET TIMING FOR 1024 Dot x 768 Line (VESA) Mode

56.5K Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.32	1.813	1.920	13.653	17.707
V	ms	0.053	0.106	0.513	13.599	14.272

* Frequencies : fd / 75MHz, fH / 56.476KHz, fV / 70.069Hz
* Interlace : NON
* SYNC polarity : H / negative, V / negative

D. PRESET TIMING FOR MAC

(1) 35K Mode (640 Dot x 480 Line)

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	2.553	2.042	3.574	20.421	28.59
V	ms	0.086	0.086	1.115	13.723	15.01

* Frequencies : fd / 31.3344MHz, fH / 34.975KHz, fV / 66.62Hz
* Interlace : NON
* SYNC polarity : H / negative, V / negative

(2) 49.7K Mode (832 Dot x 642 Line)

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.559	1.117	3.911	14.525	20.112
V	ms	0.02	0.06	0.784	12.550	13.415

* Frequencies : fd / 57.28MHz, fH / 49.722KHz, fV / 74.543Hz
* Interlace : NON
* SYNC polarity : H / negative, V / negative

E. PRESET TIMING FOR 1280 Dot x 1024 Line 78KHz Mode

	UNIT	Tfp	Ts	Tbp	Td	T
H	us	0.237	1.607	1.896	9.481	12.681
V	ms	0.000	0.038	0.469	12.986	13.493

* Frequencies : fd / 135MHz, fH / 78.855KHz, fV / 74.112Hz
* Interlace : NON
* SYNC polarity : H / positive, V / positive

8. DISPLAY SIZE 300 (W) x 225 (H) +/- 5mm

9. OPERATION TEMPERATURE 5-40 degree C

10. DIMENSION 408 (W) x 408 (H) x 450 (D) mm

11. WEIGHT 23.0 kgs (50.6 lbs)

B. IMPORTANT SAFETY INSTRUCTION

Prior to using this manual, please ensure that you have carefully followed all the procedures outlined in the user's manual for this product.

1. Read all of these instructions.

2. Save these instructions for later use.

3. Follow all warnings and instructions marked on the product.

4. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

5. Do not use this product near water.

6. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.

7. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

8. This product should be operated from the type of power source indicated on the marketing label. If you are not sure of the type of power available, consult your dealer or local power company.

9. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.

10. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.

11. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.

12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.

13. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.

14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    A. When the power cord or plug is damaged or frayed.

    B. If liquid has been spilled into the product.

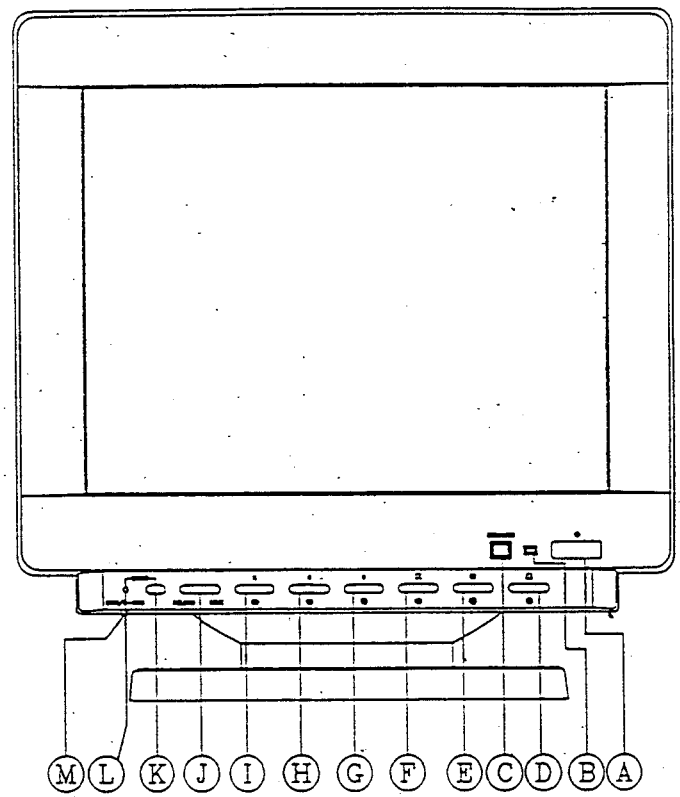
    C. If the product has been exposed to rain or water.

    D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore theproduct to normal operation.

    E. If the product has been dropped or the cabinet has been damaged.

    F. If the product exhibits a distinct change in performance, indicating a need for service.

CONTROL LOCATION ON FRONT PANEL



A: POWER ON/OFF
B: POWER INDICATOR
C: DEGAUSS
D: CONTRAST & TRAPEZOID
E: BRIGHT & ROTATE
F: SIDE PIN & V-SIZE
G: BLUE GAIN & V-POS
H: GREEN GAIN & H-SIZE
I: RED GAIN & H-POS
J: RELOAD & SAVE
K: MODE SELECTOR
L: MODE INDICATOR
M: BNC/D-SUB

C-1

D. CIRCUIT DESCRIPTION

1. POWER CIRCUIT :

The power circuit is an universal type switching regulator. The AC input is from 100VAC to 240VAC by modulating the output duty to keep the output voltage stable.

The power circuit includes the degaussing, start up, current mode control and OCP circuit.

Power circuit operation is described in the following pardgraph, please refer to the circuit diagram.

a) Degaussing circuit

The degaussing loop is functioned by R903, D901, C908 and I901 as AC input is 110VAC or 220VAC, then the AC input is decided to go through PH901 parallels with PH902 or PH902 only.

The degassing circuit can work at once when power is turned on, and it is able to be triggered by external switch after the display is turned on about 20 minutes or per 20 minutes.

When power is turned on, C917 is charged and has a current to drive Q901 and RL901, then the AC voltage will go through PH901 parallels PH902 or PH902 that depends on the input is 110VAC or 220VAC.

b) Start up circuit

The series resistor R919 and R920 provide the start up current of I903 UC3842. The turn on and turn off thresholds of under voltage lockout circuit in I903 are fixed internally at 16V and 10V respectively.

c) Current mode control operation

As Vcc of I903 (UC3842 Pin 7) more than 16V, it has square wareform on the totem-pole output (Pin 6) which can be operated to +/- 1 Amp peak for driving the gate of MOSFET Q903. The current sensing resistor R932 senses the primary current waveform for current mode PWM control and total power limit.

d) OCP

As mentioned above the current sensing resistor R932 can limit the total power output. The voltage level of auxiliary power winding will drop with the secondary load increment. The auxiliary power voltage will be too low to drive the I903 at heavy overload output condition. Then the I903 will be shut down after start up repeatly.

e) OVP

If the power supply fails such that the output voltages are too high the supply will shut down.

The SCR SR902 will short out the supply that the PWM IC I903 is living from. This will ensure that no more power will come from the power supply until the supply is reset.

2. Horizontal circuit

a) Horizontal f to v circuit

I708 (IR9331) implements this functions, VR709 can be adjusted to 8.6 Volts at 78KHz Horizontal frequency.

b) Horizontal first stage circuit

The main function of this stage have free-running, Horizontal synchronization, AFC and horizontal-phase adjustment.

b-1 Free-running oscillation

Free-running oscillation is handled by the f to v voltage, which is from I708 Pin 1, via I702 (LM358) Pin 5, Pin 7, to I602 (LM324) Pin 10, Pin 8, controls the current of I601 (TDA9102C) Pin 1, the current decides the horizontal free-running frequency.

b-2 Horizontal synchronization

If input a sync pulse (negative polarity) to I601 Pin 4, synchronization is achieved.

b-3 Automatic frequency control (AFC)

It will be compared with I601 Pin 2 sawtooth pulse input a flyback pulse to I601 Pin 8, and by the comparation of these two pulse, automatic frequency control function is achieved.

b-4 Horizontal-phase adjustment

The I601 internal circuit also has the Horizontal-phase adjustment function, the H-phase is easly adjusted by a DC voltage which is from the micon circuit, then complete this function.

c) Horizontal secondary stage circuit

The main function of this stage includes pre-driver circuit, driver circuit, and Horizontal output circuit.

c-1 Horizontal pre-driver and driver circuit

The main function of these stage is to supply enough energy to horizontal output circuit, Q706 is a duty-ratio modifier circuit, Q725, Q726, Q729 are pre-driver circuit, T703 is a driver transformer.

c-2 Horizontal output stage circuit

Horizontal output stage circuit belongs to diode modulation type. Q730, D712, D714, L706, C761, C762, C727, C760, C763, and H-DY, L703, C730, C732, C735, C738, C741 are main parts of this circuit.

d) Horizontal B + step up circuit

In order to keep the same high voltge of CRT anode at different horizontal frequency, it must supply different B + voltage according to horizontal frequency. If Horizontal frequency is higher. The B + voltage is higher. I704, Q715, Q716, Q714, T701 implement this function.

e) Spot killer circuit

It have very bright line or dot on the CRT screen when power turns off instantaneously. The spot killer circuit can supply deeply negative voltage on the CRT G1, and avoid this defect. The main parts of this circuit are ZD709, ZD710, ZD711, ZD712, Q734, Q602 assembly.

f) Muting protection circuit

It have very bright line on the CRT and very high voltage pulse on the Horizontal output transistor when mode changes or power turns ON / OFF instantaneously. The muting protection circuit works and supplies very high negative voltage on CRT G1 and very low voltage pulse on the horizontal output transistor, to avoid this defect. The main function parts of this circuit are Q734 and μp.

g) X-ray protection circuit

It will emit x-ray which will be harmful to human body when anode voltage of CRT is too high. The x-ray protection circuit can shut down the horizontal pulse to avoid x-ray emission. ZD706, D734, Q709, D709, D708, D740 are main parts of this circuit.

h) Control linearity coil circuit and CS capacitance circuit

h-1 In order to keep the same Horizontal linearity specification at different horizontal frequency, It must supply any different control current to linearity coil to get the good linearity performance. I607, Q710, L703 implement it's function.

h-2 On the horizontal linearity specification CS'S values are importance I705, Q719, Q720, Q721, Q722, C732, C735, C738, C741 can supply and achieve it.

i) H-size DC control circuit

H-size DC voltage which is from the micon can decide the Horizontal size, If the DC voltage is higher, the horizontal size is large, and vice versa, the main parts this function are I606, I605, Q607, ZD602.

3. Vertical circuit

The vertical circuit includes pre-driver circuit, output circuit and vertical f to v circuit.

a) Vertical f to v circuit

This is a control circuit, we use this circuit to convert different frequency to different voltage. If the frequency is higher then the f to v voltage is also higher, I608 implements this function.

b) Vertical pre-driver circuit

The function of pre-driver circuit have synchronization, Free-running oscillation and sawtooth pulse producer.

b-1 When input a vertical sync signal (negative polarity) to I601 Pin 14, synchronization is achieved by I601 internal circuit.

b-2 The internal circuit of I601 also has the saw-tooth pulse generator.

b-3 When vertical f to v voltage, that it is produced by the I608, is from I608 Pin 10 via I602, Q603. The Q603 can control the vertical free-running frequency.

c) Vertical output circuit

I603 (TDA8172) is a vertical output IC. It implements the current amplifier function.

d) Vertical size control circuit

When input a DC voltage which is from the micon to I601 Pin 16. It can decide the vertical raster size. If the DC voltage is higher, the vertical size the vertical size is larger, and vice versa.

e) Side-Pin circuit

I604 (TDA8145) is a parabola pulse processor, I606 Pin 5, Pin 6, Pin 7, is a comparator of parabola pulse and sawtooth pulse. I605 Pin 8, Pin 9, Pin 10 is a buffer, Via I605 Pin 12, Pin 13, Pin 14, Q608 are voltage amplifier, Q509, Q610 are current amplifier.

f) Blanking circuit

The Blanking circuit includes vertical Blanking and Horizontal Blanking circuit.

f-1 Vertical Blanking circuit

In order to Blanking vertical rast line at the retrace period on CRT screen, vertical Blanking circuit is necessary. Q732 implements this function.

f-2 Horizontal Blanking circuit

Horizontal Blanking pulse signal is from Pin 9 on the FBT. Q731 samples to square waveform and implement this function. Q723, Q724 are main output amplifier stage.

4. Vertical and Horizontal dynamic focus circuit

a) Vertical dynamic focus circuit

The parabola signal which is from the I604 Pin 7 is amplified by Q501 is a inverter amplifier transistor, It supplies to the G4 on CRT tube.

b) Horizontal dynamic focus circuit

The trigger pulse signal which is from Pin 10 on the FBT is modified to sawtooth signal voltage waveform by Q507, Q502 and Q506, I501 is a tracer and different amplifier integator. Q503 is a voltage amplifier, Q504, Q505 implement function of the current amplifier.

5. Video circuit

The video circuit contains four major portions :

a. Switch

I401 switching the sync. & video circuits (BNC or D-SUB)
Q102, 202, 302 for BNC video signals.
Q103, 203, 303 for D-SUB video signals.

b. video amplifiers

I101, 201, 301 (B.R.G.) pre-amplifier IC.
I102, 202, 302 (B.R.G.) final amplifier IC.

c. BIAS (Background white balance)

Q104, 204, 304 & VR101, 201, 301 for B.R.G. BIAS Adjustment (Background).

d. sync. seperate circuit

I402 for sync. seperate (seperate sync., composite sync., sync. on green)

e. ABL. CKT

ABL. voltage from def., to limit contrast thus to decrease beam current.

6. Micro circuit

A short description of the key related IC'S is given below :

a. 80C51 has an 8 bit CPU, 4K ROM bytes, 128 RAM bytes, 32 I/O lines, two 16-bit counter / timers, a serial I/O port for either multi-processor communications, and on-chip oscillator and clock circuits.

b. PCF8582 is an 2K bits, 5V electrically erasable programmable read only memory (EEPROM) organized as 256 by 8 bits. The stored information is electrically alterable on a word-by-word basis IIC-BUS controlled.

c. M62358P comprises eight DACs each controlled via the IIC-BUS. The DACs are individually programmed using a 14 bit word to select an output from one of 256 voltage steps. The maximum output voltage of all DACs is set by software and the and the resolution is approximately Vmax / 256.

d. I001 80C51 is a 8 bits micro-controller and heart of the BUS controlled monitor. 80C51 automatically checks the mode parameters from H-sync, V-sync, H-polarity, and V-polarity, then automatically switches the DAC from old mode to a new mode, when 80C51 is checking mode, it reads different mode parameters from EEPROM VIA IIC-BUS, then decides whether there is a change in mode. If a change needed, 80C51 will read correct mode data from EEPROM VIA IIC-BUS, then put it to DAC VIA IIC-BUS.
The system clock is provided by a 12 MHz crystal connected to Pin 18, 19 of I001.

e. PCF8582 is a 2K bits EEPROM. In normal operation the EEPROM needs 10ms to program one byte.

f. M62358P is a octal 8 bits DAC.

g. I002 LM7805 is a power regulator IC, it changes 12V to 5V to supply the whole circuit except M62358P which use 12V power supply to provide wider range of DAC output.

7. Power management circuit : Include auxiliary power supply, H / V-sync detector and shut down control.

a. Auxiliary power circuit : The operation principle is same as the main power circuit. Include PWM IC UC3842 (I801), start up circuit, current mode control, ocp and ovp circuit.

b. H / V-sync detector : The Pin 8 voltage of I802 is high level (12V), if H-sync or V-sync is no pulse and no video. The Pin 8 voltage is low, if H-sync and V-sync is normal or signal cable is dis-connection.

c. Shut down circuit : The Pin 1 voltage of I903 is low, when the Pin 8 voltage of I802 is high and photo-coupler I803 is on status. Then the main power will be shut down. due to PWM IC I903 is not operation.

E. GENERAL ADJUSTMENT

1. B + 60V adjustment : VR901
   a) Connect the positive lead of multimeter to P905 pin 2 (60V), negative lead to chassis ground.
   b) Adjust VR901 to obtain a 60V reading.

2. H-Freq. to Voltage adjustment : VR709
   a) Input the 78 KHz timing to the display.
   b) Adjsut VR709 to obtain a 8.7V reading from connect the positive lead of multimeter to TP701, negative lead to chassis ground.

3. H-Hold adjustment : VR754
   a) Input the 78KHz timing to the display.
   b) The TP703 short to ground.
   c) Adjust VR754 obtain picture holded.

4. High Voltage adjust VR7C6
   a) Turn off the power and connect the positive lead of high voltage voltmeter to the tube anode, negative lead to chassis ground.
   b) Turn on the power of display at least 15 minutes.
   c) Adjust VR7C6 to obtain a 26KV reading.

5. V-Hold adjustment : VR641
   Adjsut VR641 to obtain a sawtoothwave so following figure from connect the probe of scope on TP601.

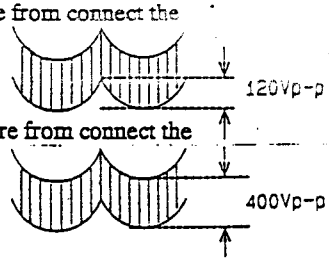
6. H-Center adjustment : VR7A6
   a) Input the 78KHz timing to the display.
   b) Adjust VR7A6 to let the raster be centered.

7. V-Linearity adjustment : VR613
   a) Input cross hatch pattern to the display
   b) Adjust VR613 to obtain a best linearity.

8. V-Center adjustment : VR645
   a) Input 78KHz timing to the display.
   b) Select general mode, push reload key.
   c) Adjust VR645 to let picture be centered.

9. Keystone adjustment : VR669
   Adjust VR669 to obtain geometric distortion less 3.5mm.

10. V-dynamic focus adjustment : VR501
    Adjust VR501 to obtain a parabolicwave so follwing figure from connect the probe of scope on FBT pin 14.



11. H-dynamic focus adjustment : VR521
    Adjust VR521 to obtain a parabolicwave so following figure from connect the probe of scope on FBT pin 14.

12. Pincushion adjustment : VR683
a) Select color mode, push reload key.
b) Adjust VR683 to obtain a best pincushion pattern.

13. Horizontal size adjustment : VR630
a) Input 64KHz timing to the display.
b) Select general mode, push H-size key to obtain maximum.
c) Adjust VR630 to let horizontal size just over bezel.

14. Micon Control H-size, H-phase, V-center, V-size reload value seting.
a) Hold V-size up key, then press power on.
b) Push H-size key adjust to let horizontal size just 300mm +/- 5mm.
c) Push V-size key adjust to let vertical size just 225mm +/- 5mm.
d) Push H-phase key adjust to let the picture be centered.
e) Push V-center key adjust to let the picture be centered.
f) Push save key
g) Power off

15. Verical static focus adjustment : VR FOCUS V
a) Display any character all over the screen.
b) Set contrast maximum and brightness in cut off position.
c) Adjust FOCUS V VR until the 1/4 and 3/4 position of center Horizontal line of the picture is sharpest.

16. Horizontal static focus adjustment : VR FOCUS H
a) Display any character all over the screen.
b) Set contrast maximum and brightness is cut off position.
c) Adjust FOCUS H VR until the 1/4 and 3/4 position of center Verical line of the picture is sharpest.

17. Background white balance adjustment : VR101, VR201, VR301
a) Set reload key (Video OFF)and all bias VR (VR101, VR201, VR301) to maximum and let the raster invisible.
b) Display black pattern (all video signals are disabled) and adjust SCREEN VR until the raster just appear to see which color comes out first (red, green or blue colors).
c) Adjust bias VR of the other 2 colors to get grey (9300K + 27M.P.C.D) raster.
d) Adjust SCREEN VR to let the grey raster just 0.4 FL.

18. White balance adjustment : R.G.B-Gain
a) Select color mode, push reload key.
b) Connect the probe of scope on G-Cathode.
c) Adjust G-Gain to get 35 Vp-p.
d) Input the full white pattern to the display.
e) Set Reload key.
f) Adjust the other two keys to get the white pattern (9300K + 27M.P.C.D).

19. Automatic beam current limit (ABL) adjustment : VR793
a) Input 78 KHz timing and full white pattern to the display.
b) Set Reload key.
c) Adjust VR793 to obtain a 30 FL reading.

20. Purity adjustment :
a) Display magenta color pattern.
b) Adjust the purity magnet so that the picture is in magenta color. By turning two overlapping pawls in opposite directions, move them until they are at the same angle, the 9 o'clock and 3 o'clock positions repectively (shown in Fig1).

21. Static convergence adjustment : (show in Fig 1.2.3.4)
a) Display magenta crosshatch pattern.
b) Open the two pawls of the 4-pole magnets to allow the red and blue vertical line to unite.
c) Open and rotate the two pawls at a constant angle so that the red and blue horizontal lines unite.
d) If the vertical line deviates, open the two pawls at the deviation position and make a minor adjustment by changing its angle.
e) Display white crosshatch pattern.
f) Make the red and blue vertical lines at the center unite with the green by opening the two 6-pole pawls.
g) Rotate the two pawls at constant angle so that the red and blus horizontal lines unite with the green.
h) If the vertical lines deviate, change the angle of pawls from the deviation position.

RELATIVE PLACEMENT OF COMPONENTS

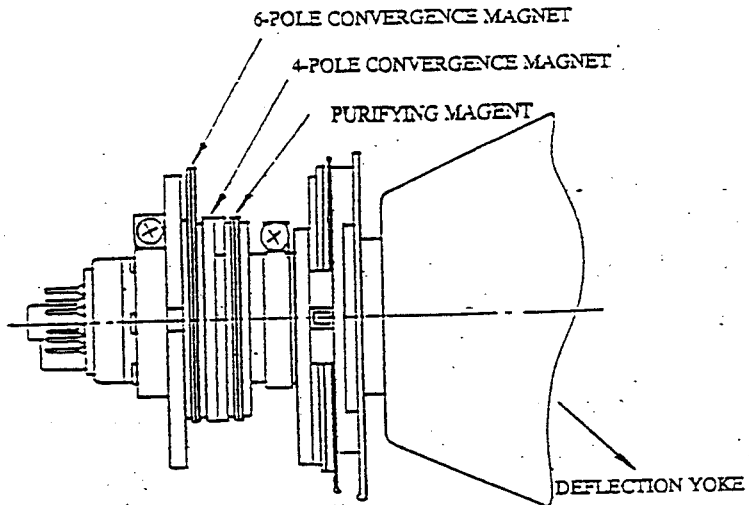
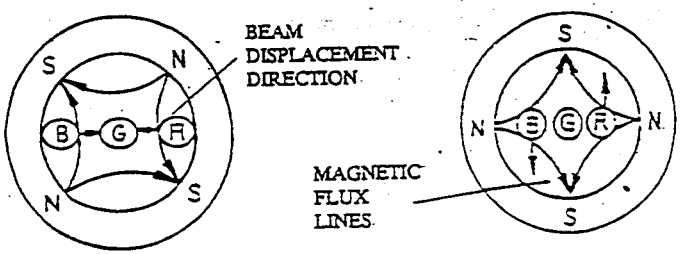


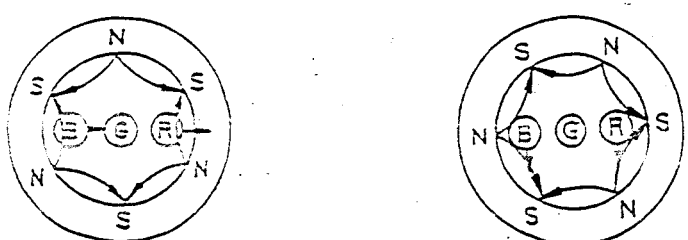
Fig.1

STATIC CONVERGENCE SYSTEM

Beam Motion Produced by th : six-pole and four-pole Convergence Manget



4-POLE FIELD



6-POLE FIELD

Fig.2

Adjustable misconvergence pattern on 41cm CDT

1. DY Outline

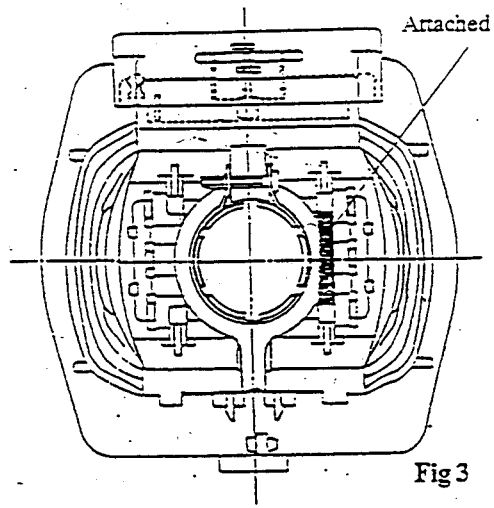
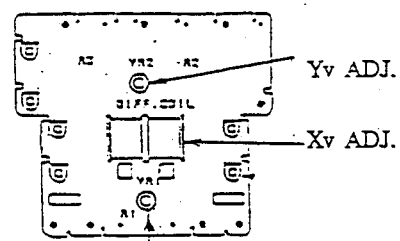
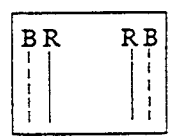


Fig 3

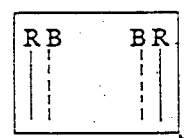


Upper side terminal board

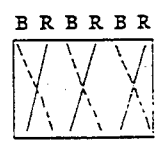
2. Adjustable misconvergence pattern



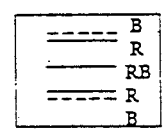
Attached Ferrite to right side.



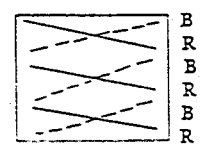
Attached Ferrite to left side.



Adjusted YH vol.

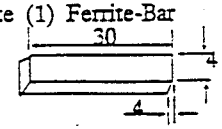


Adjusted Yv vol.



Adjusted Xv coil.

Note (1) Ferrite-Bar

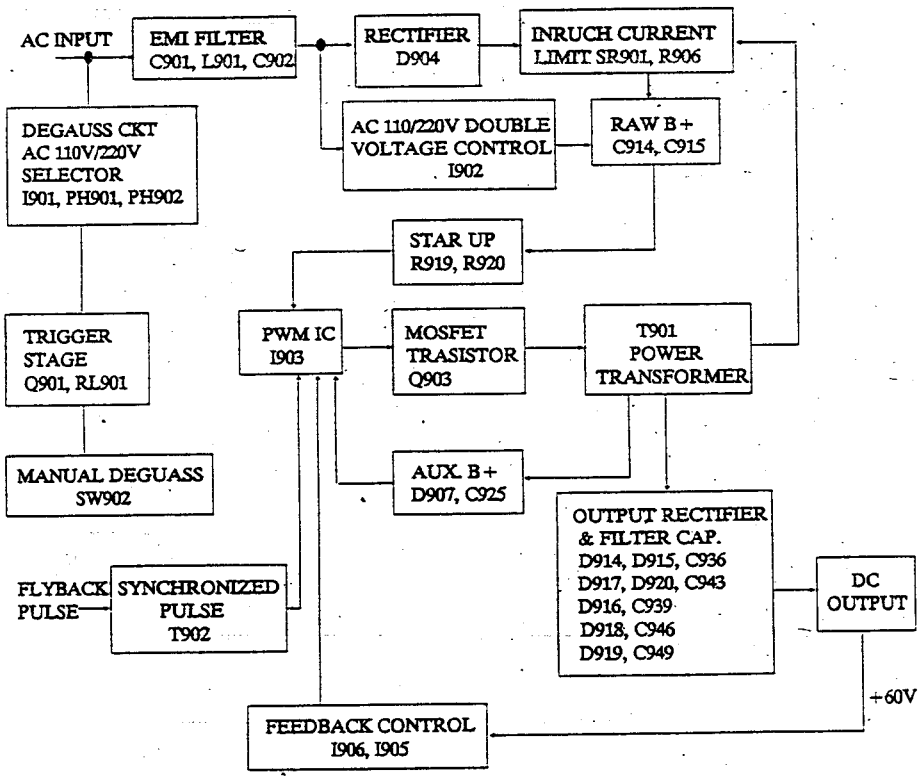


Barium-Ferrite

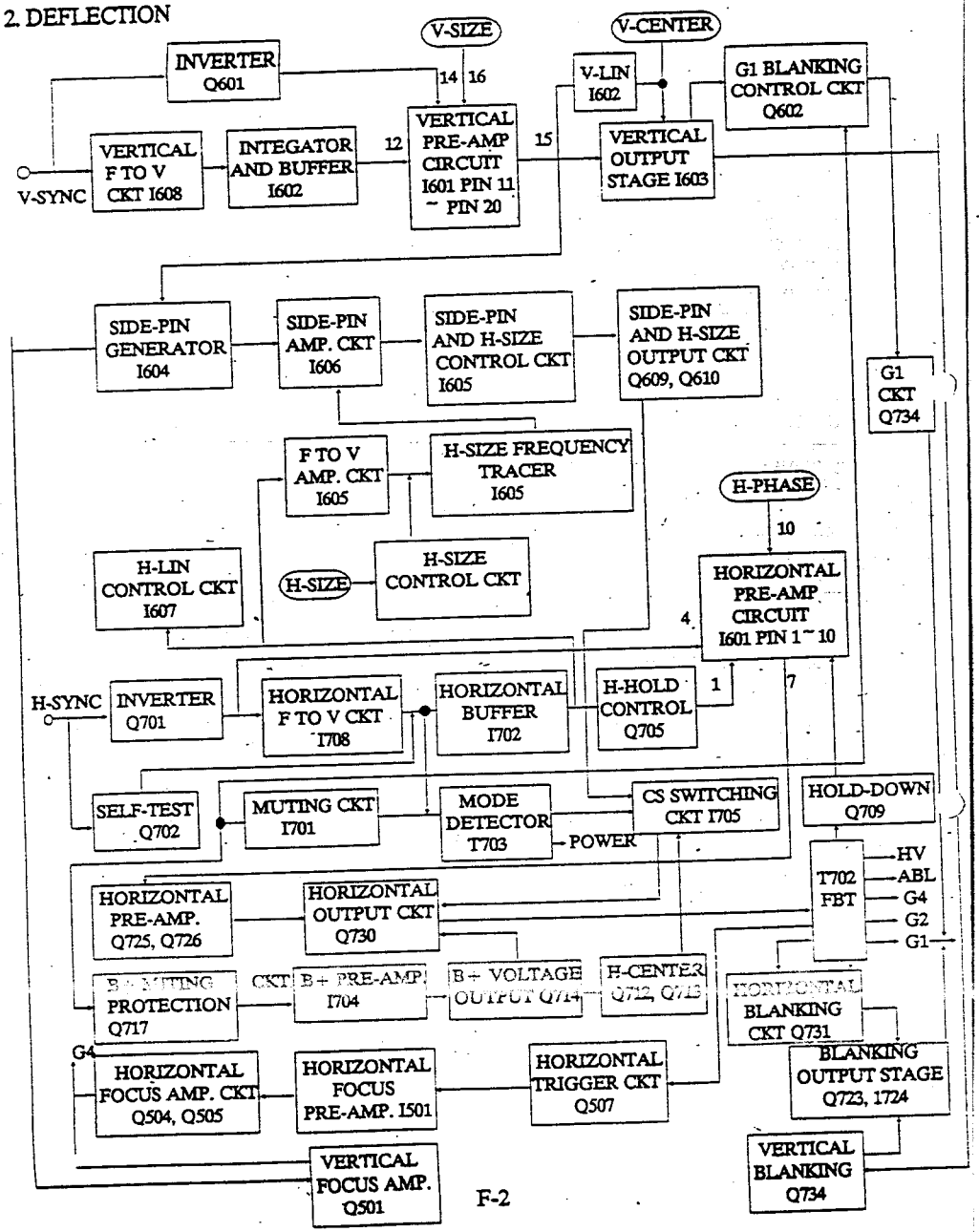
Fig 4

F. BLOCK DIAGRAM

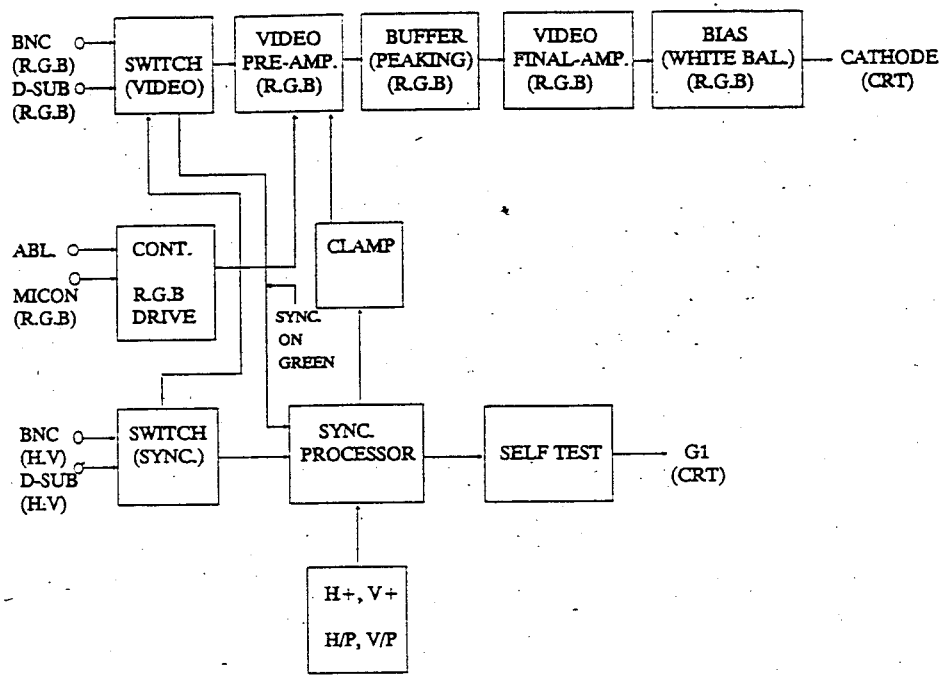
1. POWER CIRCUIT



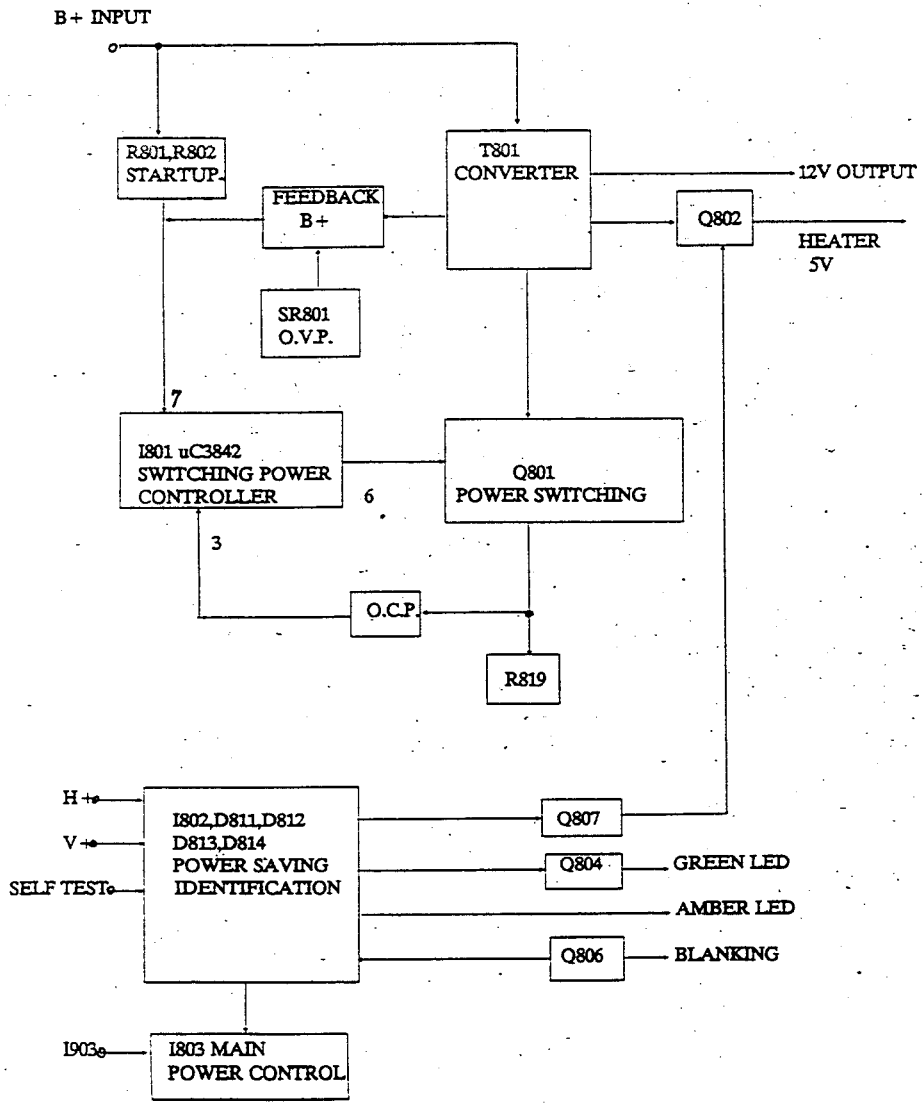
2. DEFLECTION



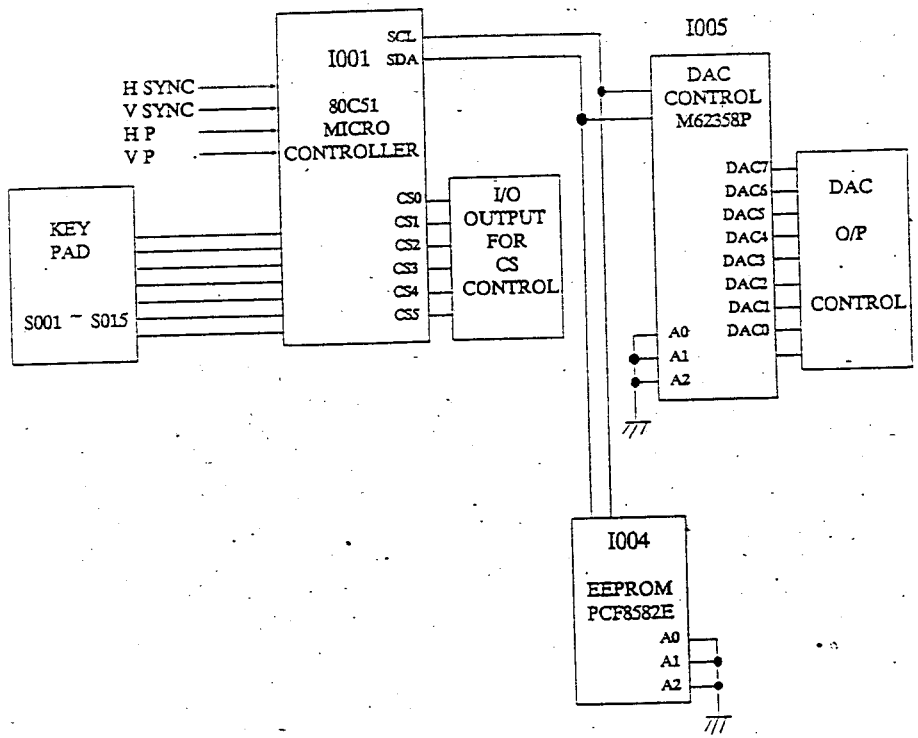
3. VIDEO



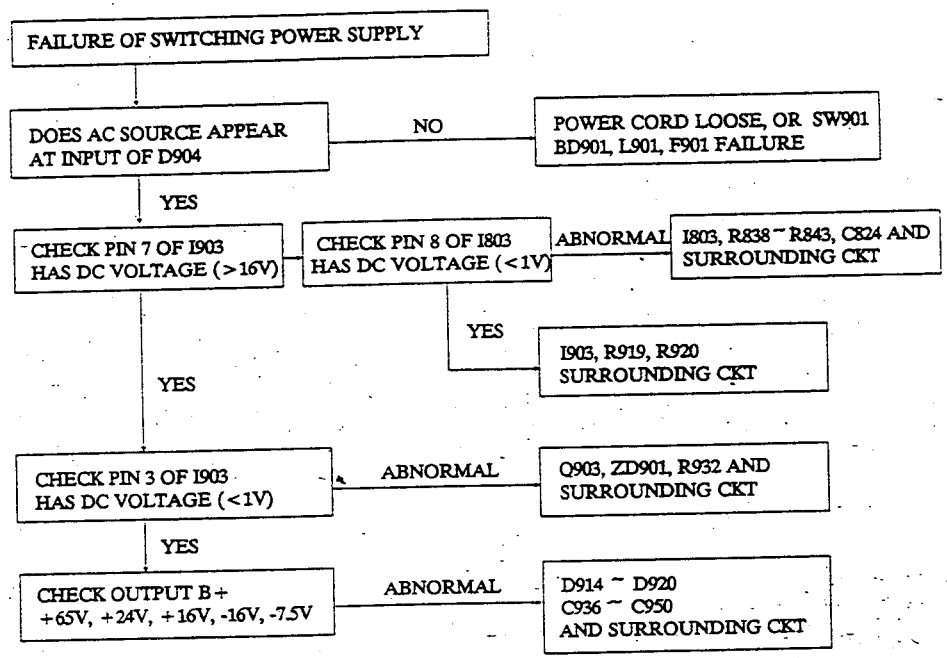
4.POWER MANAGEMENT BLOCK DIAGRAM

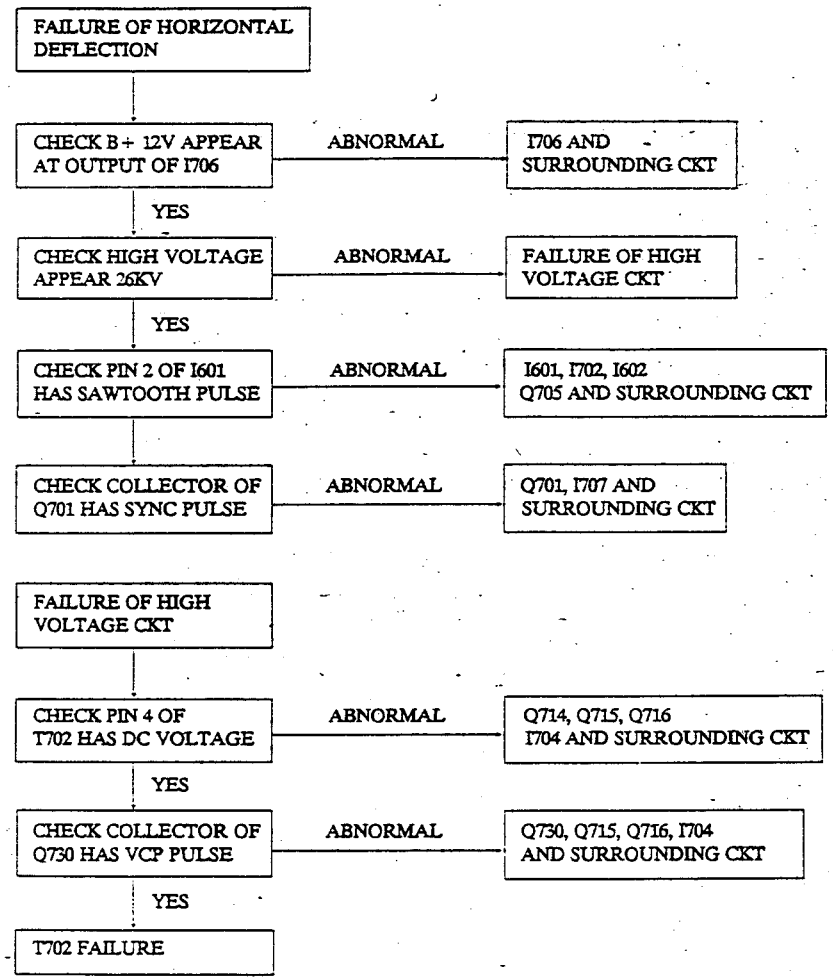


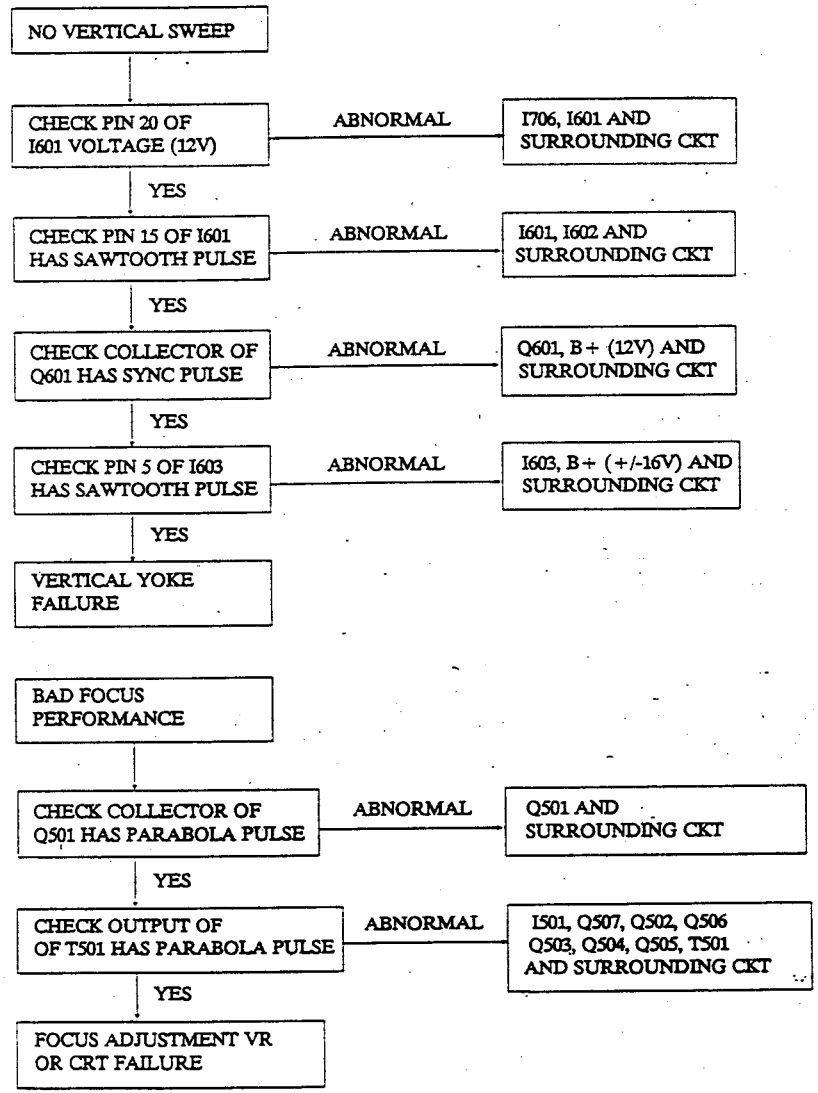
MICRO CIRCUIT BLOCK DIAGRAM

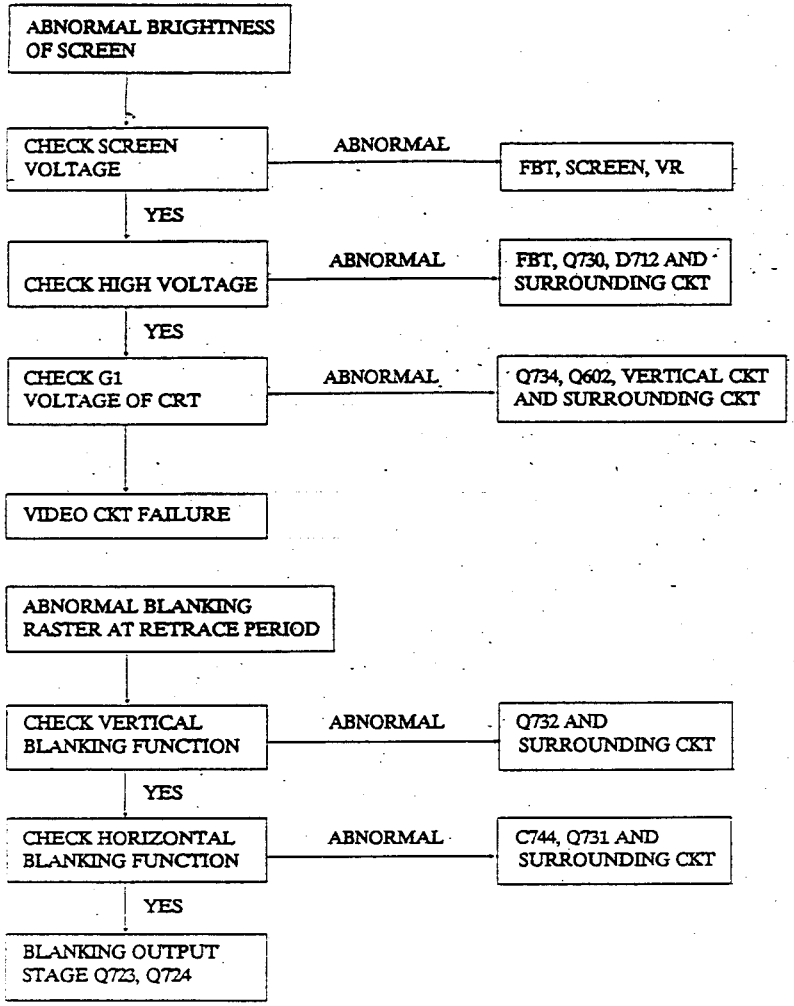


TROUBLE SHOOTING

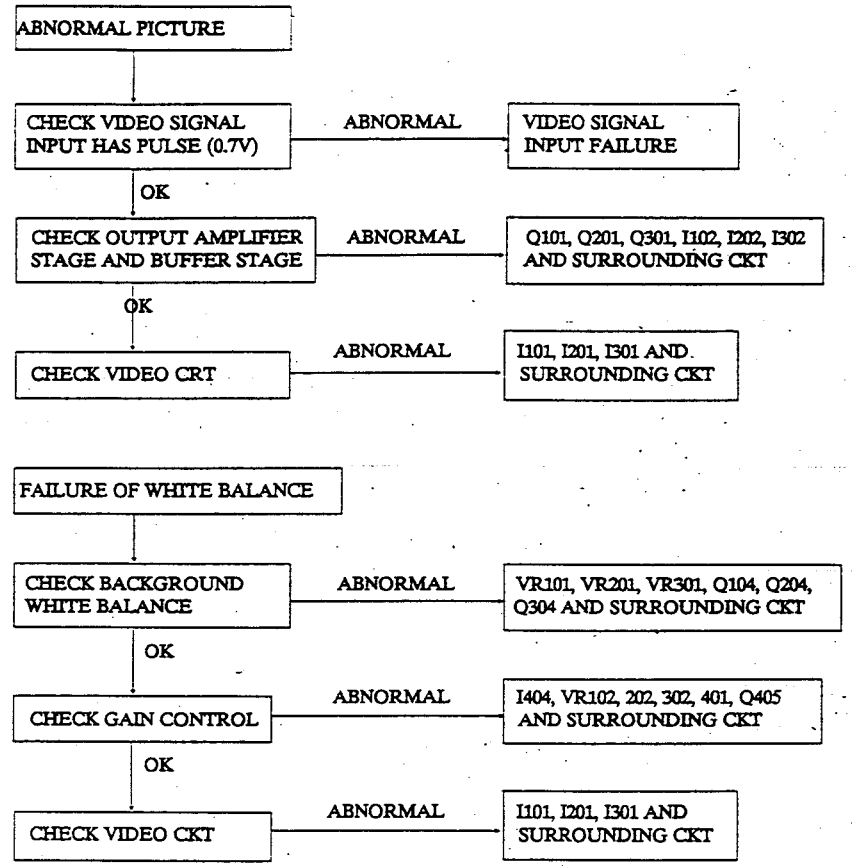

FAILURE OF SWITCHING POWER SUPPLY
DOES AC SOURCE APPEAR AT INPUT OF D904
NO
POWER CORD LOOSE, OR SW901 BD901, L901, F901 FAILURE
YES
CHECK PIN 7 OF I903 HAS DC VOLTAGE (>16V)
CHECK PIN 8 OF I803 HAS DC VOLTAGE (<1V)
ABNORMAL
I803, R838 ~ R843, C824 AND SURROUNDING CKT
YES
I903, R919, R920 SURROUNDING CKT
YES
CHECK PIN 3 OF I903 HAS DC VOLTAGE (<1V)
ABNORMAL
Q903, ZD901, R932 AND SURROUNDING CKT
YES
CHECK OUTPUT B+ +65V, +24V, +16V, -16V, -7.5V
ABNORMAL
D914 ~ D920 C936 ~ C950 AND SURROUNDING CKT


FAILURE OF HORIZONTAL DEFLECTION
CHECK B+ 12V APPEAR AT OUTPUT OF I706
ABNORMAL
I706 AND SURROUNDING CKT
YES
CHECK HIGH VOLTAGE APPEAR 26KV
ABNORMAL
FAILURE OF HIGH VOLTAGE CKT
YES
CHECK PIN 2 OF I601 HAS SAWTOOTH PULSE
ABNORMAL
I601, I702, I602 Q705 AND SURROUNDING CKT
CHECK COLLECTOR OF Q701 HAS SYNC PULSE
ABNORMAL
Q701, I707 AND SURROUNDING CKT
FAILURE OF HIGH VOLTAGE CKT
CHECK PIN 4 OF T702 HAS DC VOLTAGE
ABNORMAL
Q714, Q715, Q716 I704 AND SURROUNDING CKT
YES
CHECK COLLECTOR OF Q730 HAS VCP PULSE
ABNORMAL
Q730, Q715, Q716, I704 AND SURROUNDING CKT
YES
T702 FAILURE

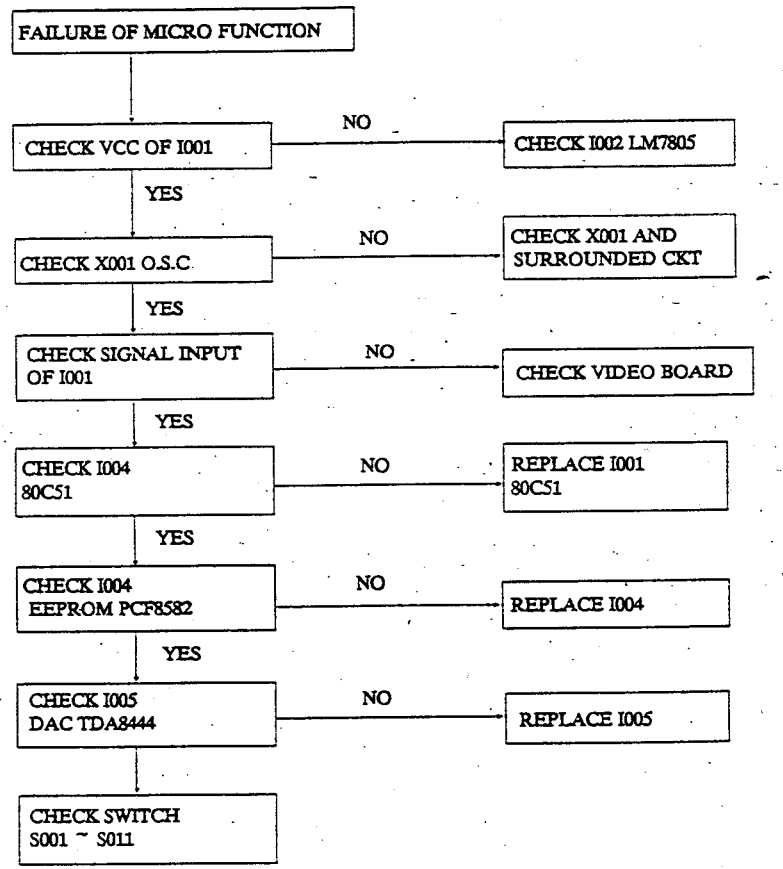

NO VERTICAL SWEEP
CHECK PIN 20 OF I601 VOLTAGE (12V)
ABNORMAL
I706, I601 AND SURROUNDING CKT
YES
CHECK PIN 15 OF I601 HAS SAWTOOTH PULSE
ABNORMAL
I601, I602 AND SURROUNDING CKT
YES
CHECK COLLECTOR OF Q601 HAS SYNC PULSE
ABNORMAL
Q601, B+ (12V) AND SURROUNDING CKT
YES
CHECK PIN 5 OF I603 HAS SAWTOOTH PULSE
ABNORMAL
I603, B+ (+/-16V) AND SURROUNDING CKT
YES
VERTICAL YOKE FAILURE
BAD FOCUS PERFORMANCE
CHECK COLLECTOR OF Q501 HAS PARABOLA PULSE
ABNORMAL
Q501 AND SURROUNDING CKT
YES
CHECK OUTPUT OF OF T501 HAS PARABOLA PULSE
ABNORMAL
I501, Q507, Q502, Q506 Q503, Q504, Q505, T501 AND SURROUNDING CKT
YES
FOCUS ADJUSTMENT VR OR CRT FAILURE


ABNORMAL BRIGHTNESS OF SCREEN
CHECK SCREEN VOLTAGE
ABNORMAL
FBT, SCREEN, VR
YES
CHECK HIGH VOLTAGE
ABNORMAL
FBT, Q730, D712 AND SURROUNDING CKT
YES
CHECK G1 VOLTAGE OF CRT
ABNORMAL
Q734, Q602, VERTICAL CKT AND SURROUNDING CKT
VIDEO CKT FAILURE
ABNORMAL BLANKING RASTER AT RETRACE PERIOD
CHECK VERTICAL BLANKING FUNCTION
ABNORMAL
Q732 AND SURROUNDING CKT
YES
CHECK HORIZONTAL BLANKING FUNCTION
ABNORMAL
C744, Q731 AND SURROUNDING CKT
YES
BLANKING OUTPUT STAGE Q723, Q724

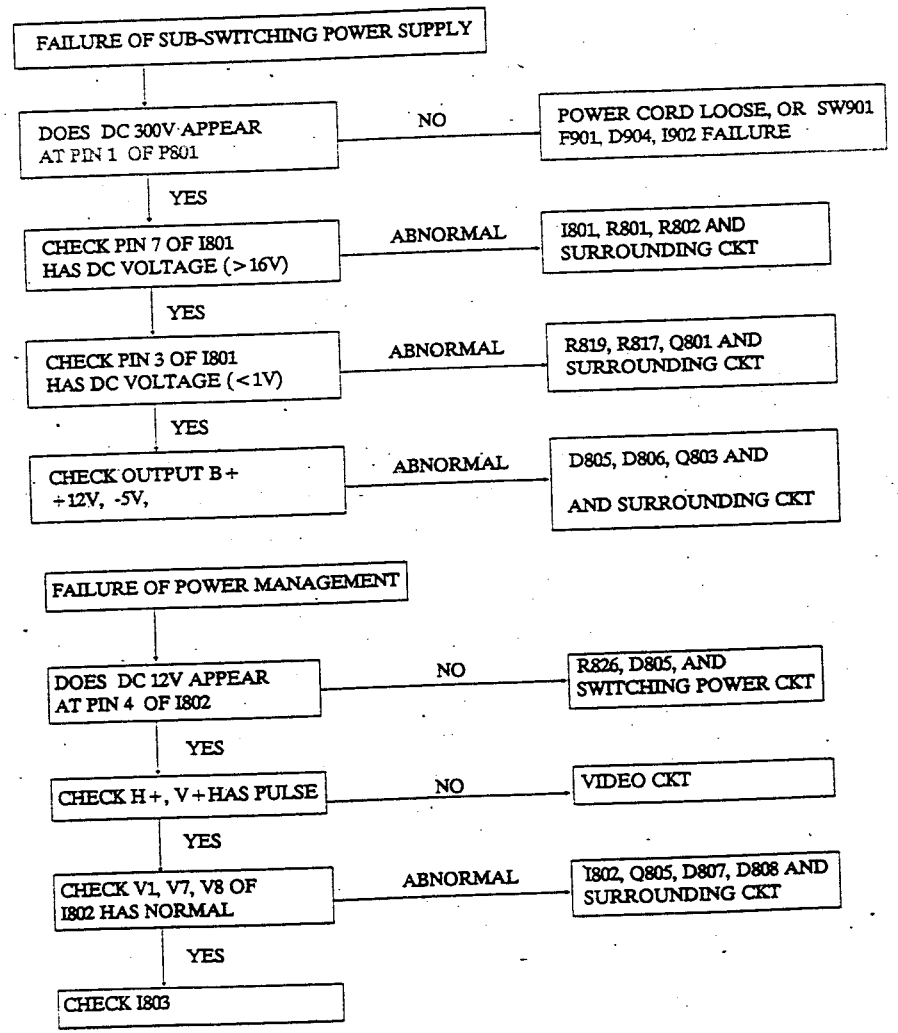
G-4

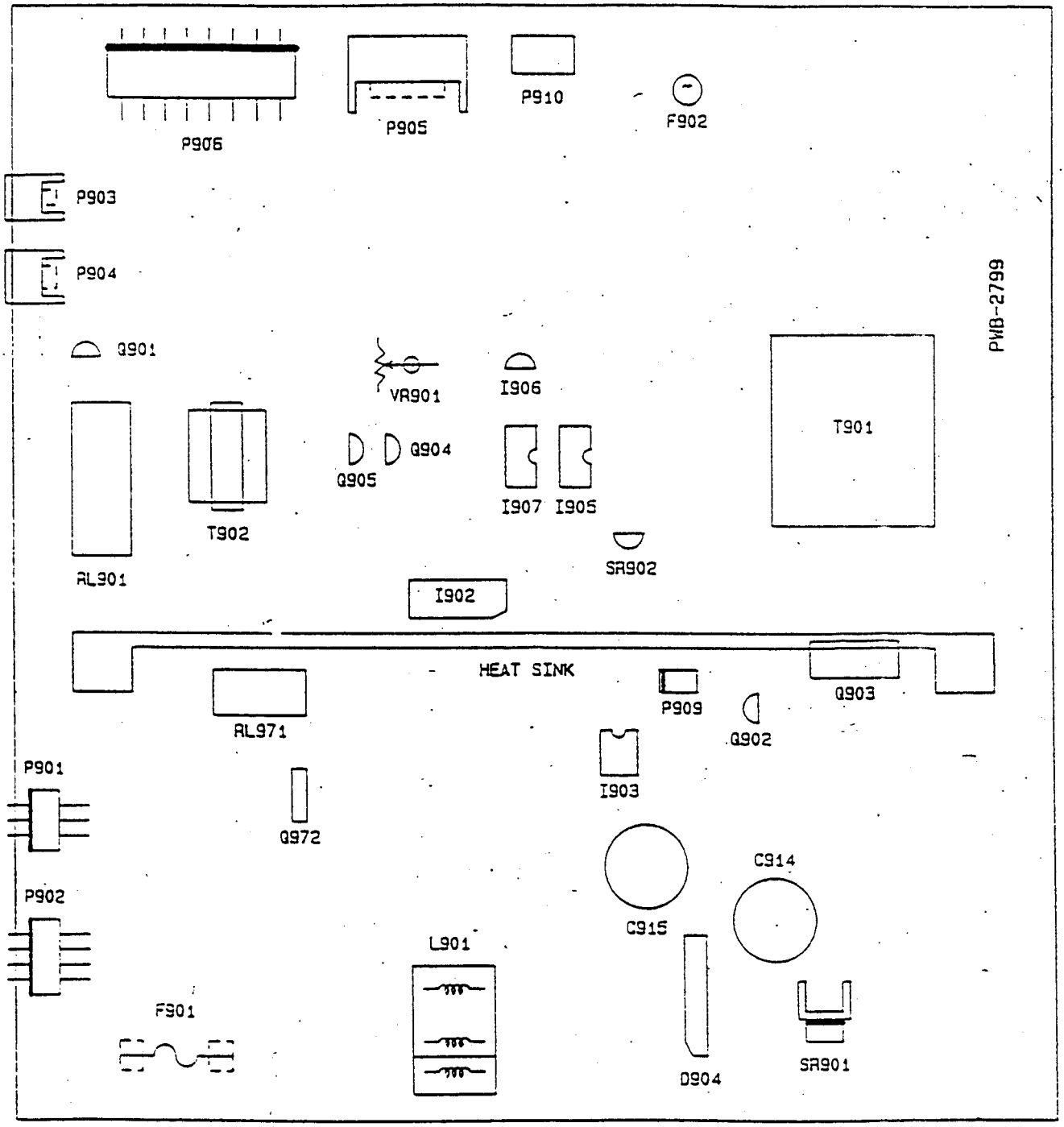

ABNORMAL PICTURE
CHECK VIDEO SIGNAL INPUT HAS PULSE (0.7V)
ABNORMAL
VIDEO SIGNAL INPUT FAILURE
OK
CHECK OUTPUT AMPLIFIER STAGE AND BUFFER STAGE
ABNORMAL
Q101, Q201, Q301, I102, I202, I302 AND SURROUNDING CKT
OK
CHECK VIDEO CRT
ABNORMAL
I101, I201, I301 AND SURROUNDING CKT
FAILURE OF WHITE BALANCE
CHECK BACKGROUND WHITE BALANCE
ABNORMAL
VR101, VR201, VR301, Q104, Q204, Q304 AND SURROUNDING CKT
OK
CHECK GAIN CONTROL
ABNORMAL
I404, VR102, 202, 302, 401, Q405 AND SURROUNDING CKT
OK
CHECK VIDEO CKT
ABNORMAL
I101, I201, I301 AND SURROUNDING CKT

G-5

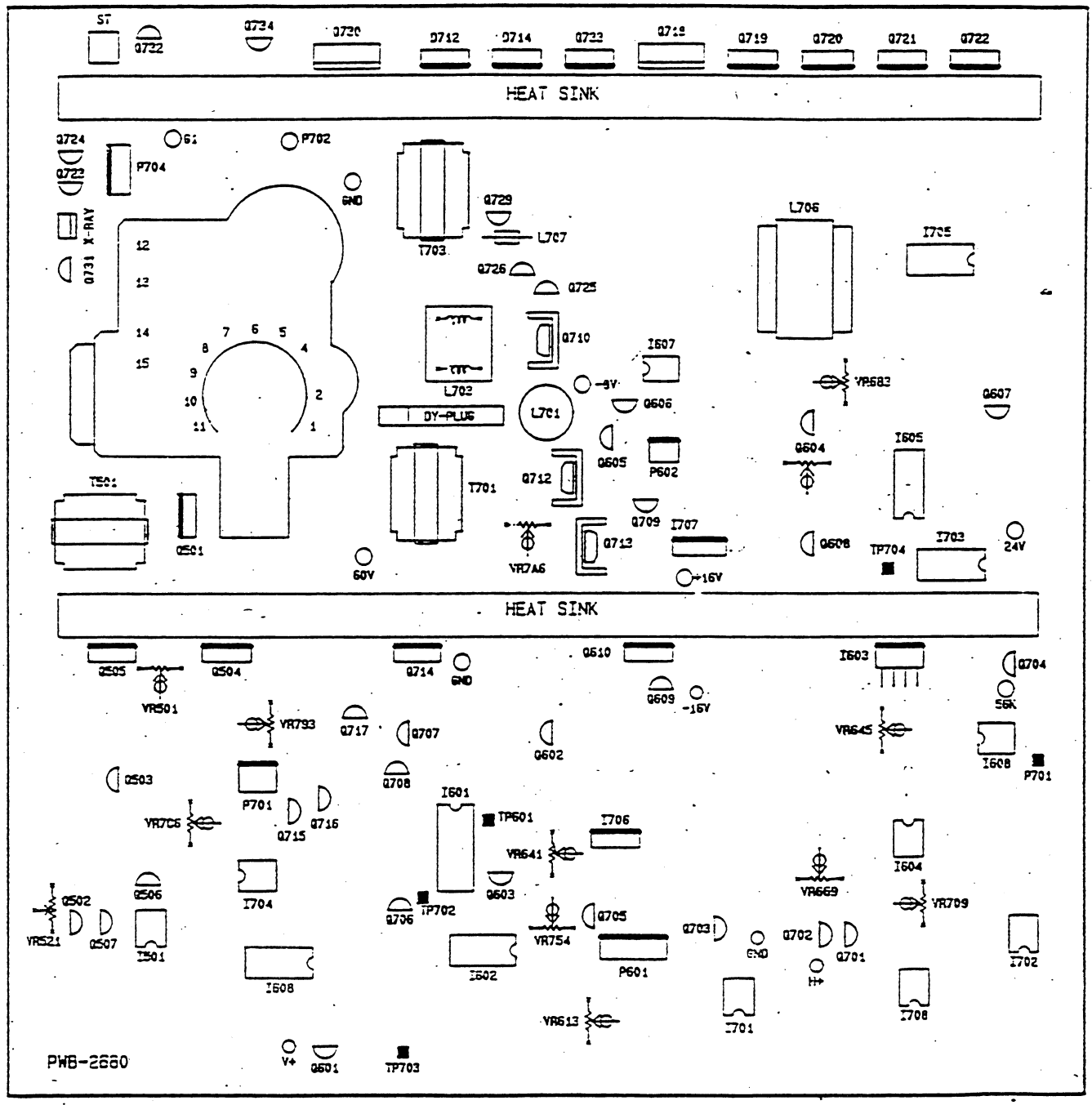


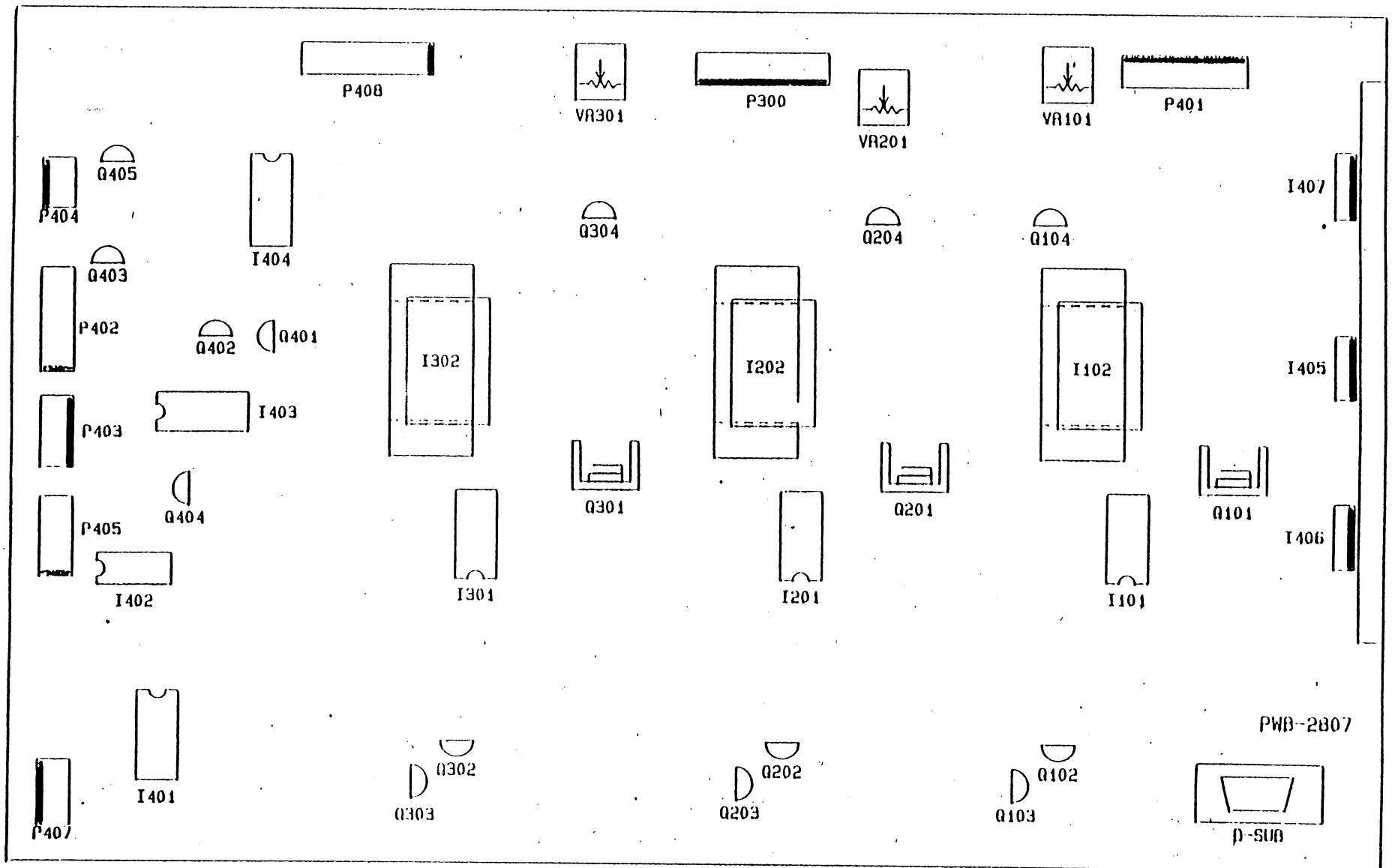
POWER MANAGEMENT BOARD

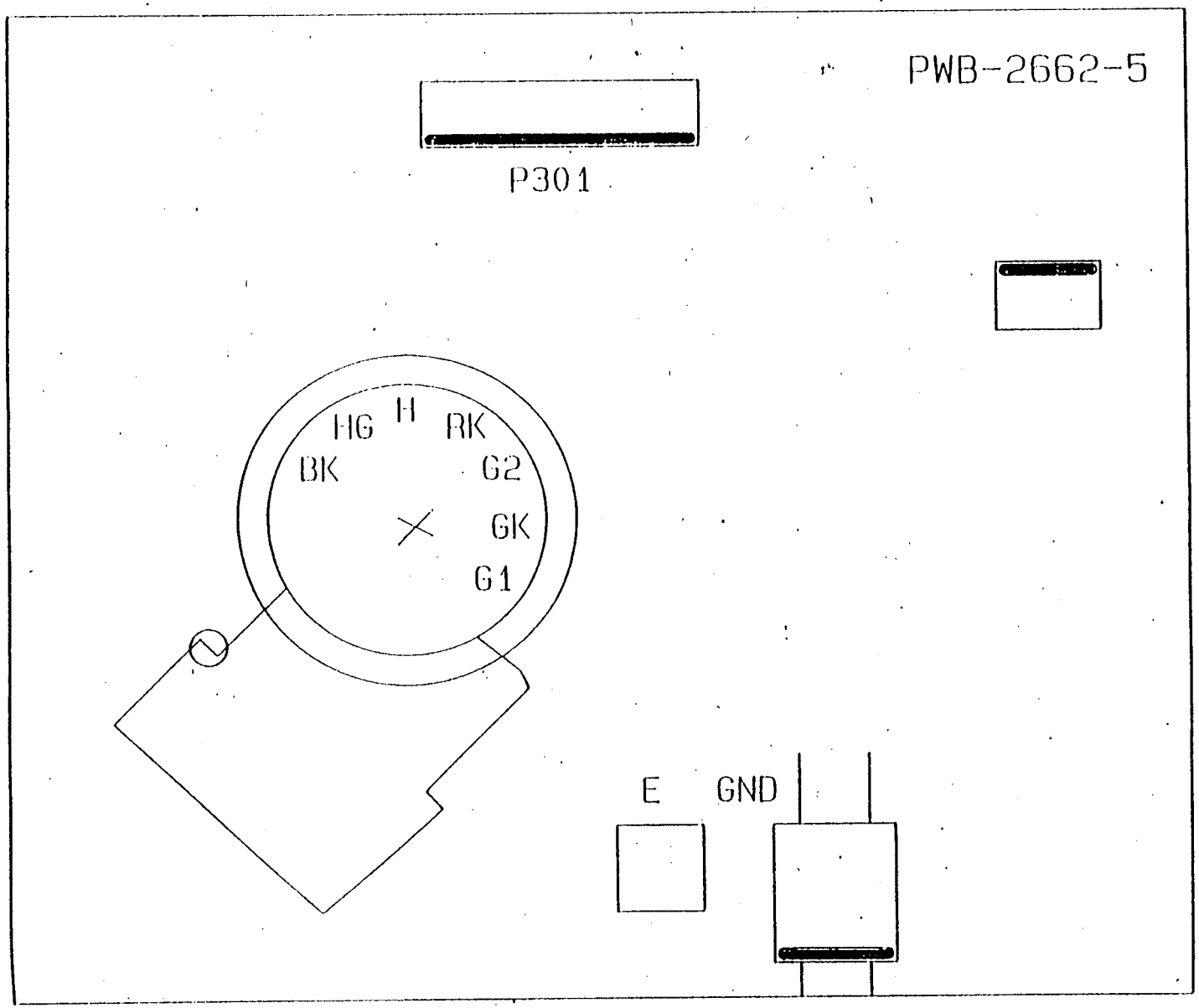

FAILURE OF SUB-SWITCHING POWER SUPPLY
DOES DC 300V APPEAR AT PIN 1 OF P801
NO
POWER CORD LOOSE, OR SW901 F901, D904, I902 FAILURE
YES
CHECK PIN 7 OF I801 HAS DC VOLTAGE (>16V)
ABNORMAL
I801, R801, R802 AND SURROUNDING CKT
YES
CHECK PIN 3 OF I801 HAS DC VOLTAGE (<1V)
ABNORMAL
R819, R817, Q801 AND SURROUNDING CKT
YES
CHECK OUTPUT B+ +12V, -5V,
ABNORMAL
D805, D806, Q803 AND AND SURROUNDING CKT
FAILURE OF POWER MANAGEMENT
DOES DC 12V APPEAR AT PIN 4 OF I802
NO
R826, D805, AND SWITCHING POWER CKT
YES
CHECK H+, V+HAS PULSE
NO
VIDEO CKT
YES
CHECK V1, V7, V8 OF I802 HAS NORMAL
ABNORMAL
I802, Q805, D807, D808 AND SURROUNDING CKT
YES
CHECK I803

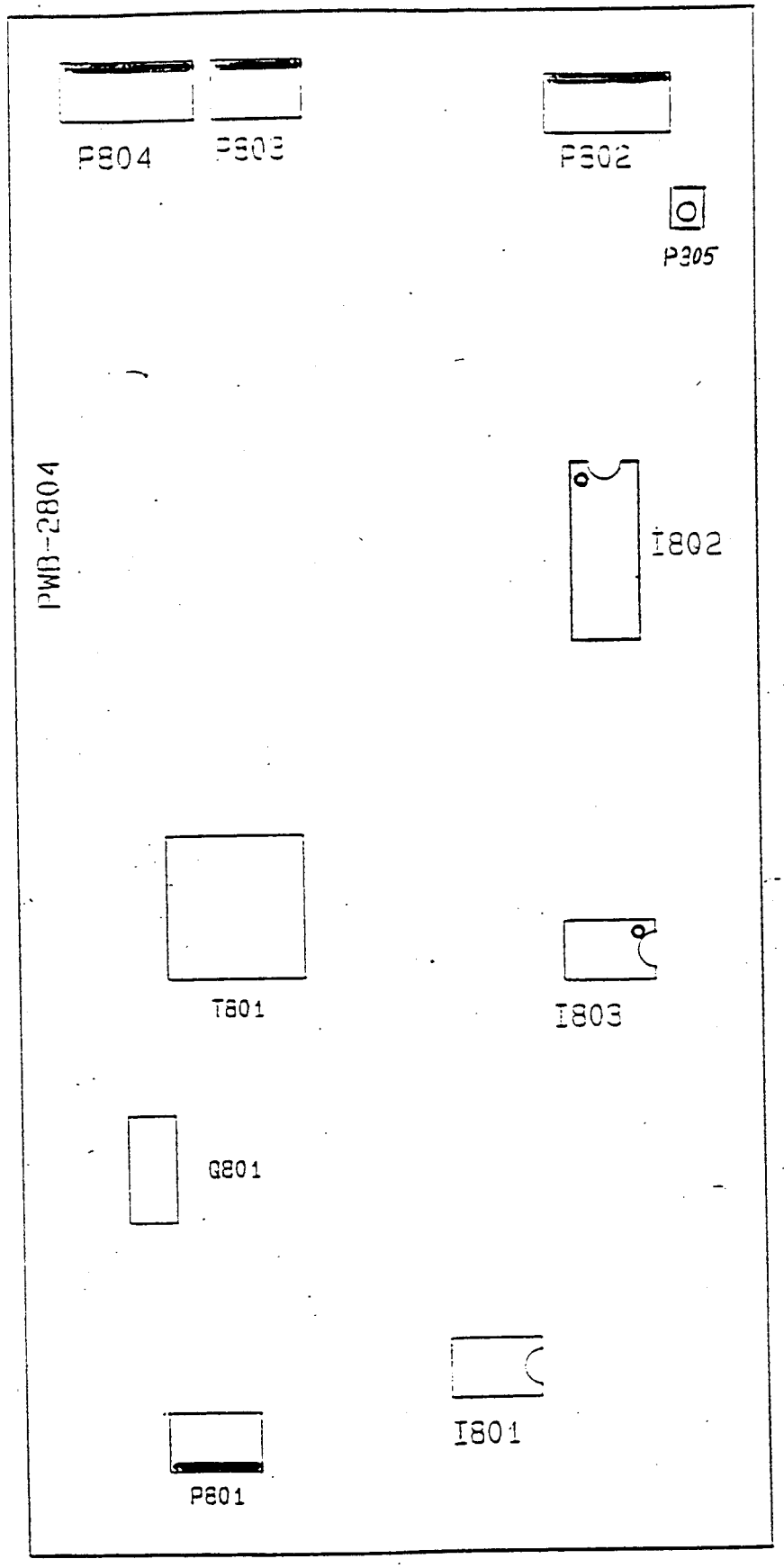

P906
P905
P910
F902
P903
P904
PWB-2799
Q901
VR901
I906
T901
Q905
Q904
I907
I905
T902
RL901
SR902
I902
HEAT SINK
Q903
P909
RL971
Q902
I903
P901
Q972
C914
P902
C915
L901
F901
D904
SR901

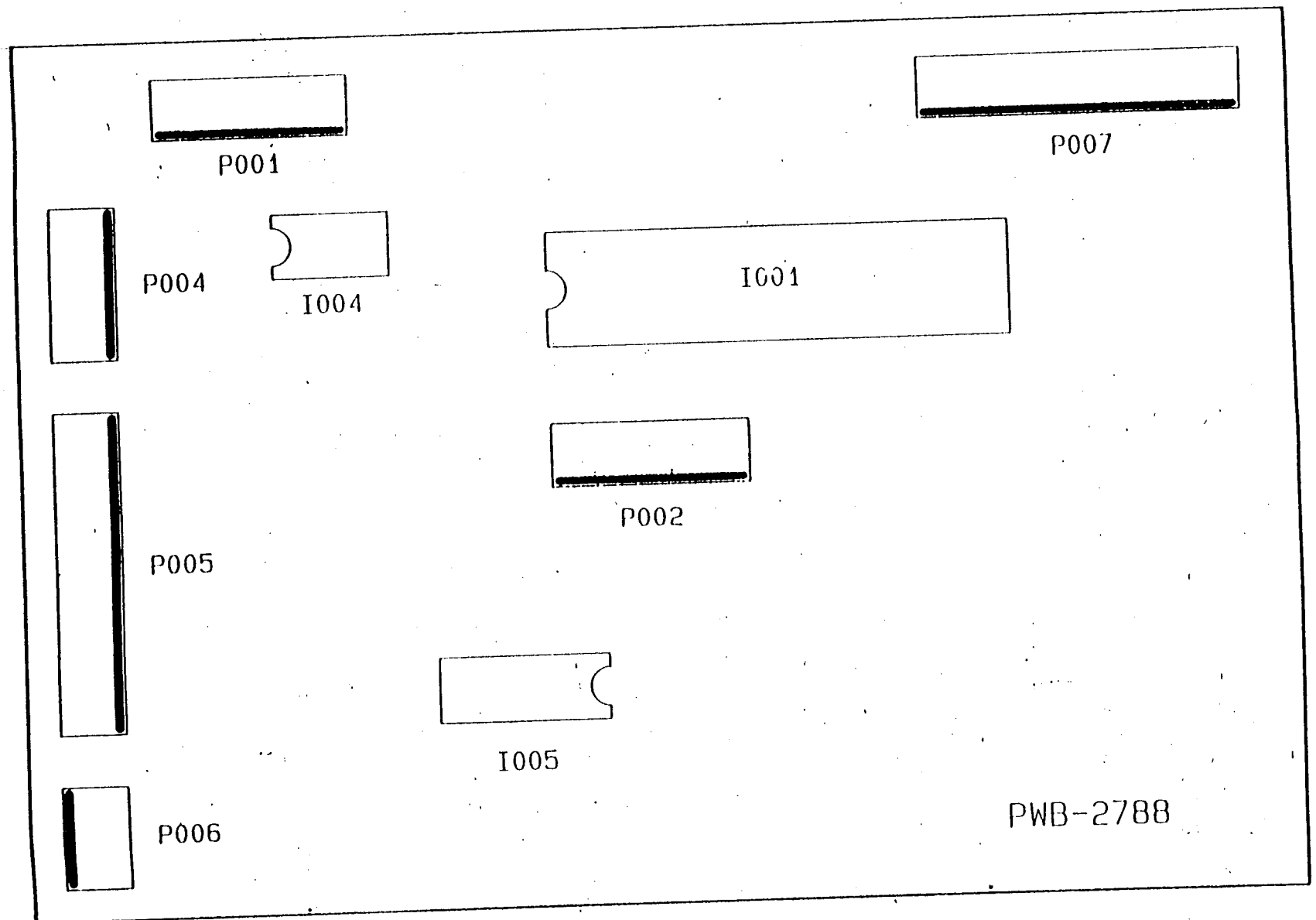
H-1

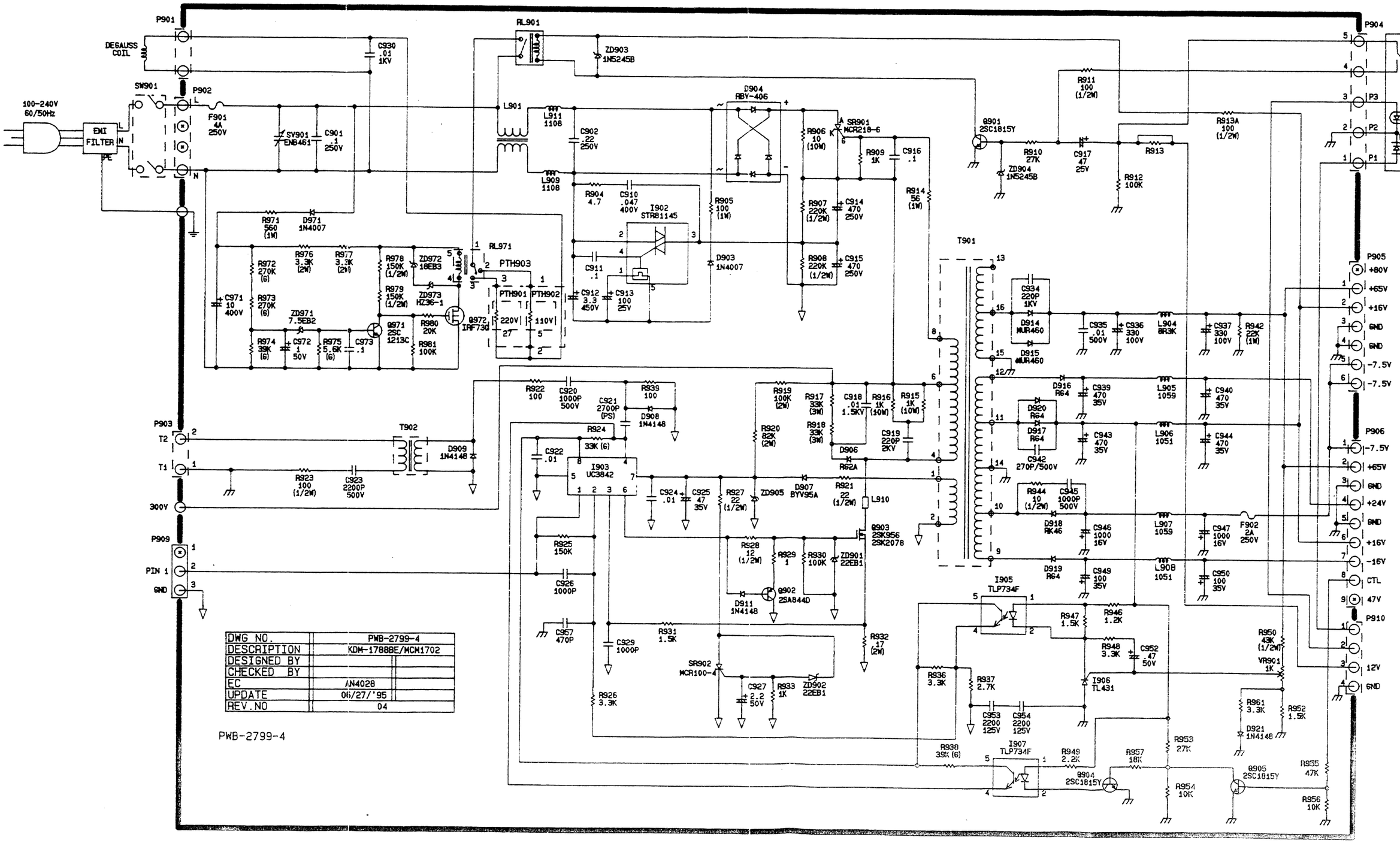

HEAT SINK
HEAT SINK
DY-PLUG
PWB-2660


P408
VR301
P300
VR201
VR101
P401
P404
Q405
I404
Q304
Q204
Q104
I407
Q403
P402
Q402
Q401
I302
I202
I102
I405
P403
I403
Q301
Q201
Q101
Q404
P405
I402
I301
I201
I101
I406
PWB-2807
P407
I401
Q302
Q303
Q202
Q203
Q102
Q103
D-SUB


PWB-2662-5
P301
HG
H
RK
BK
G2
GK
G1
E
GND

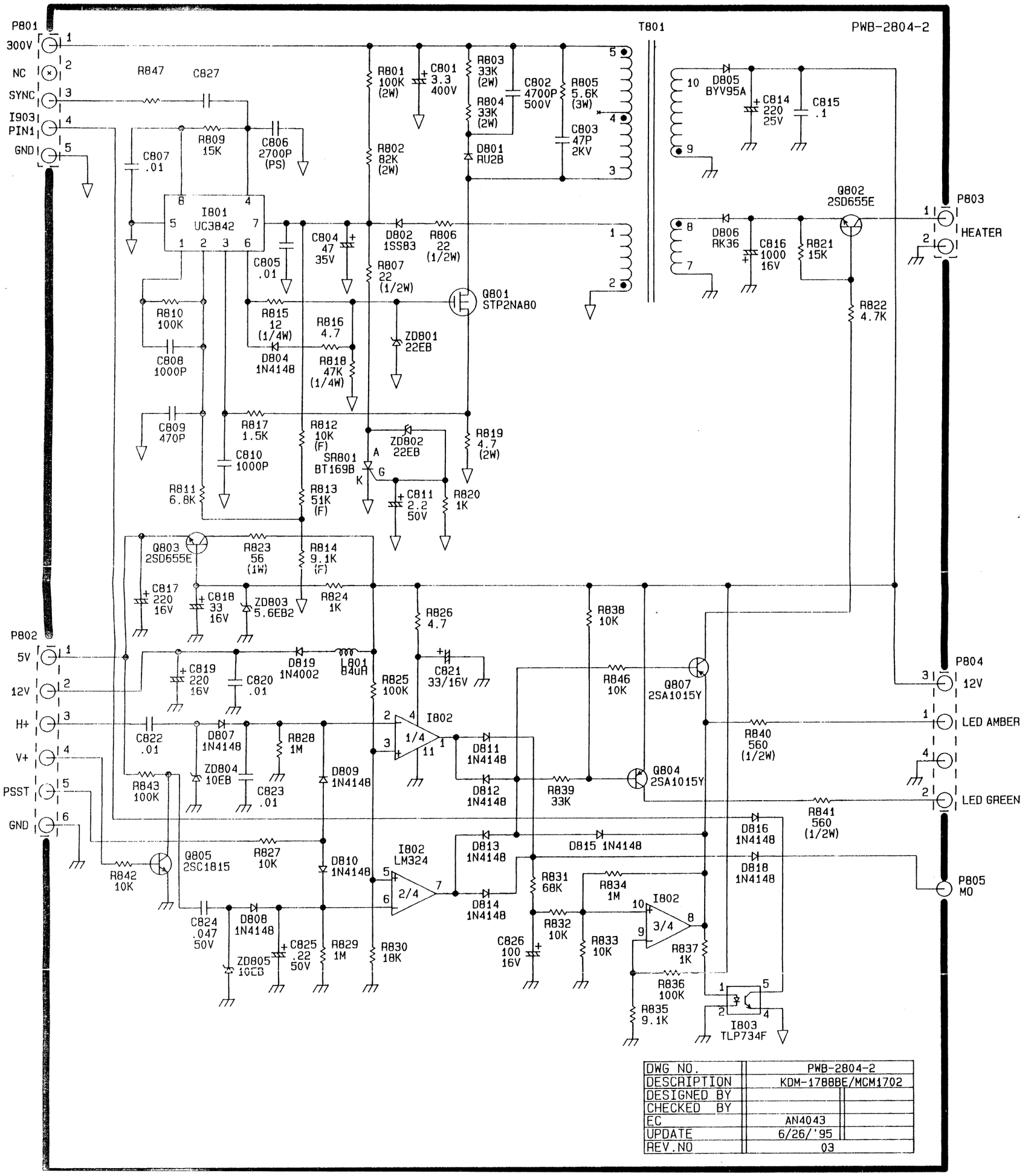

P804
P803
P802
P305
PWB-2804
I802
T801
I803
Q801
I801
P801


P001
P007
P004
I004
I001
P002
P005
I005
P006
PWB-2788



DWG NO.	PWB-2799-4
DESCRIPTION	KDM-1788BE/MCM1702
DESIGNED BY	
CHECKED BY	
EC	JN4028
UPDATE	06/27/'95
REV.NO	04

PWB-2799-4



DWG NO.	PWB-2804-2
DESCRIPTION	KDM-1788BE/MCM1702
DESIGNED BY	
CHECKED BY	
EC	AN4043
UPDATE	6/26/'95
REV.NO	03

I102.I202.I302	CR2
R137	
R237.R337	
R114	
R214.R314	
C109.C209.C309	
C112.C212.C312	47
R116.R216,R316	
R152.R252,R352	
C129.C229.C329	

DWG NO.	PWB-2807-2/2662-5
DESCRIPTION	KDM-1788BE/MCM1702
DESIGNED BY	
CHECKED BY	
EC	
UPDATE	06/26/'95
REV.NO	04

P406 GND PSST V(+) H(+) 12V 5V

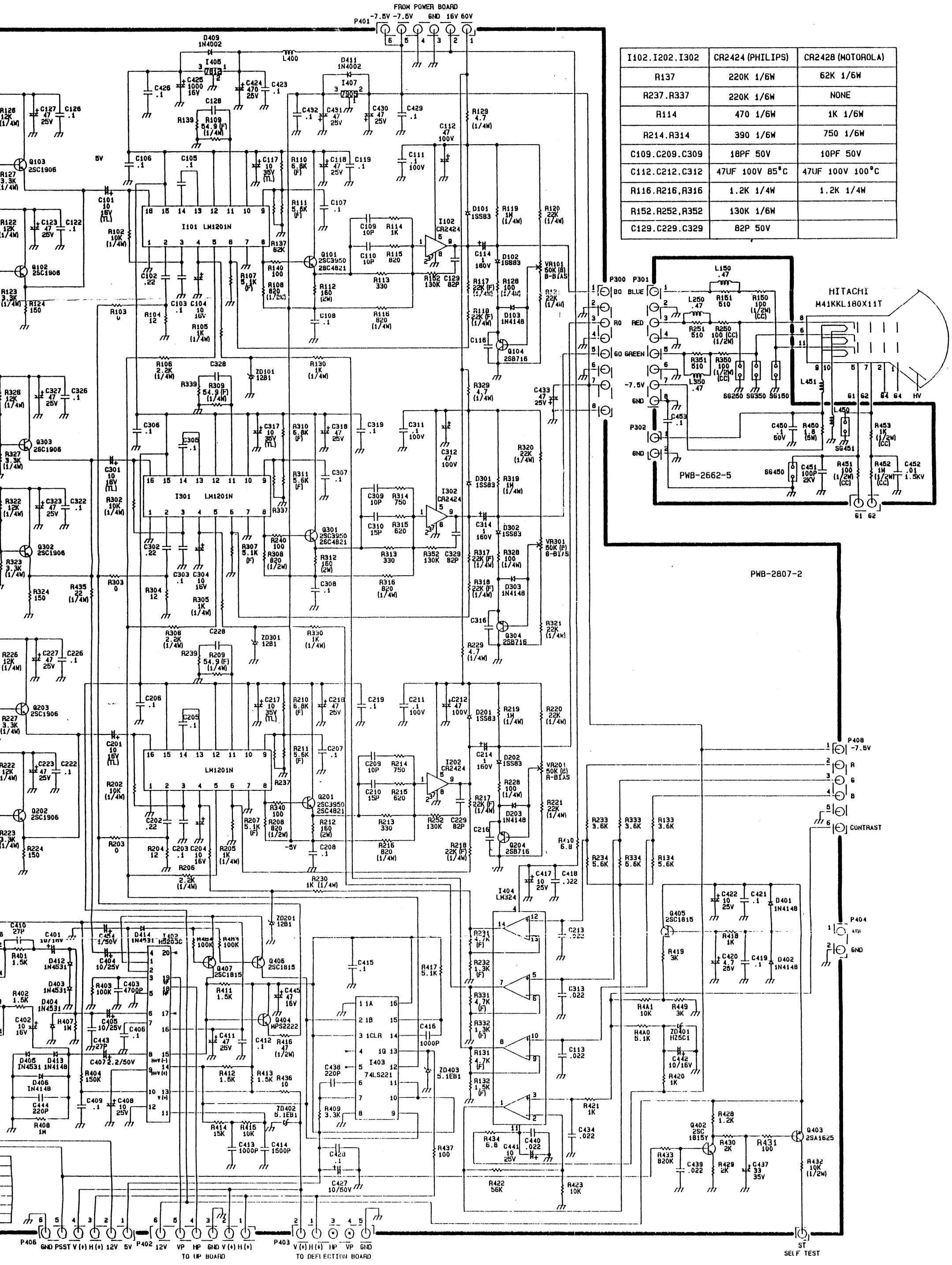
P402 12V VP HP GND V(+) H(+)

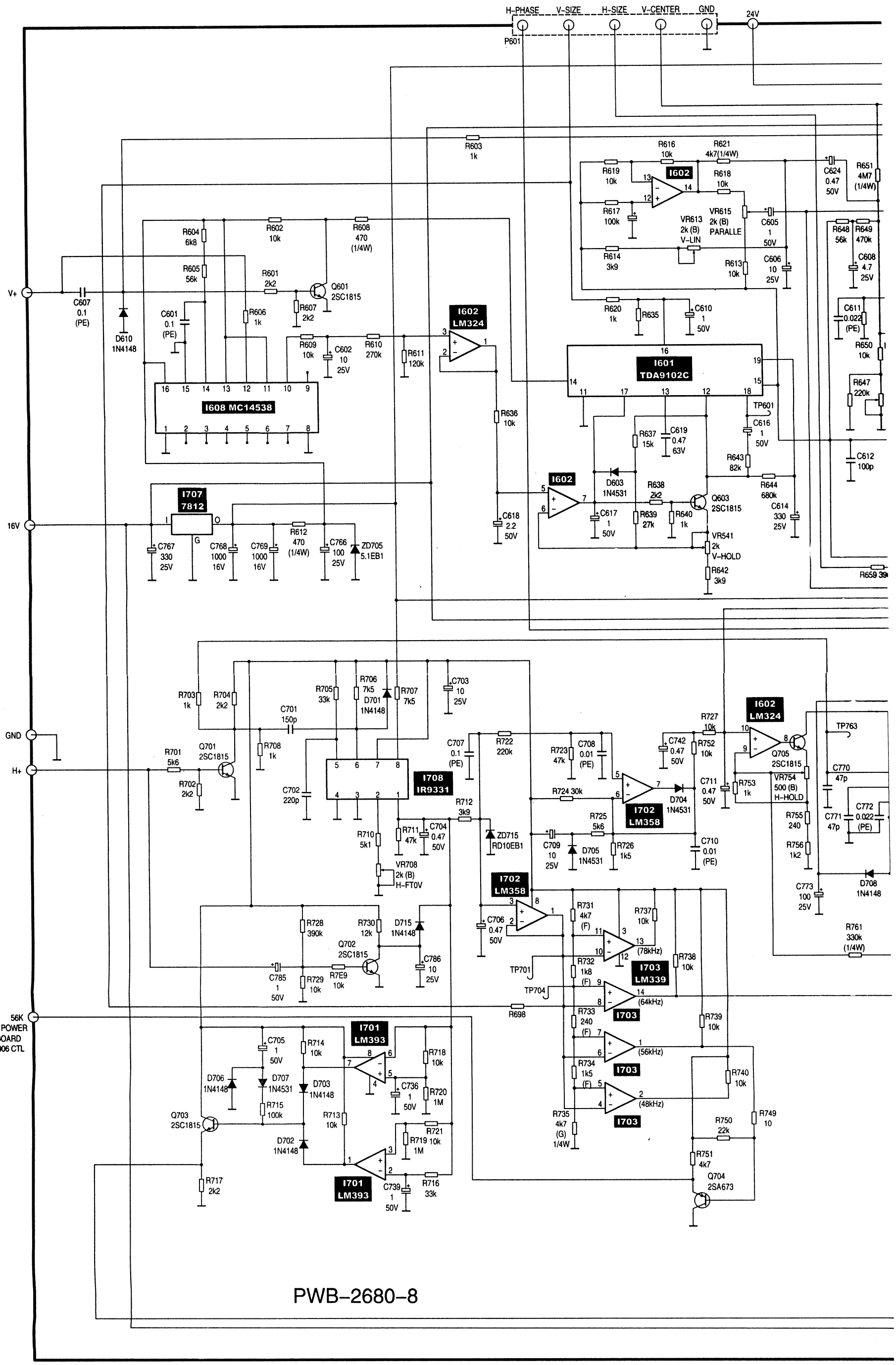
TO UP BOARD

P403 V(+) H(+) HP VP GND

TO DEFLECTION BOARD

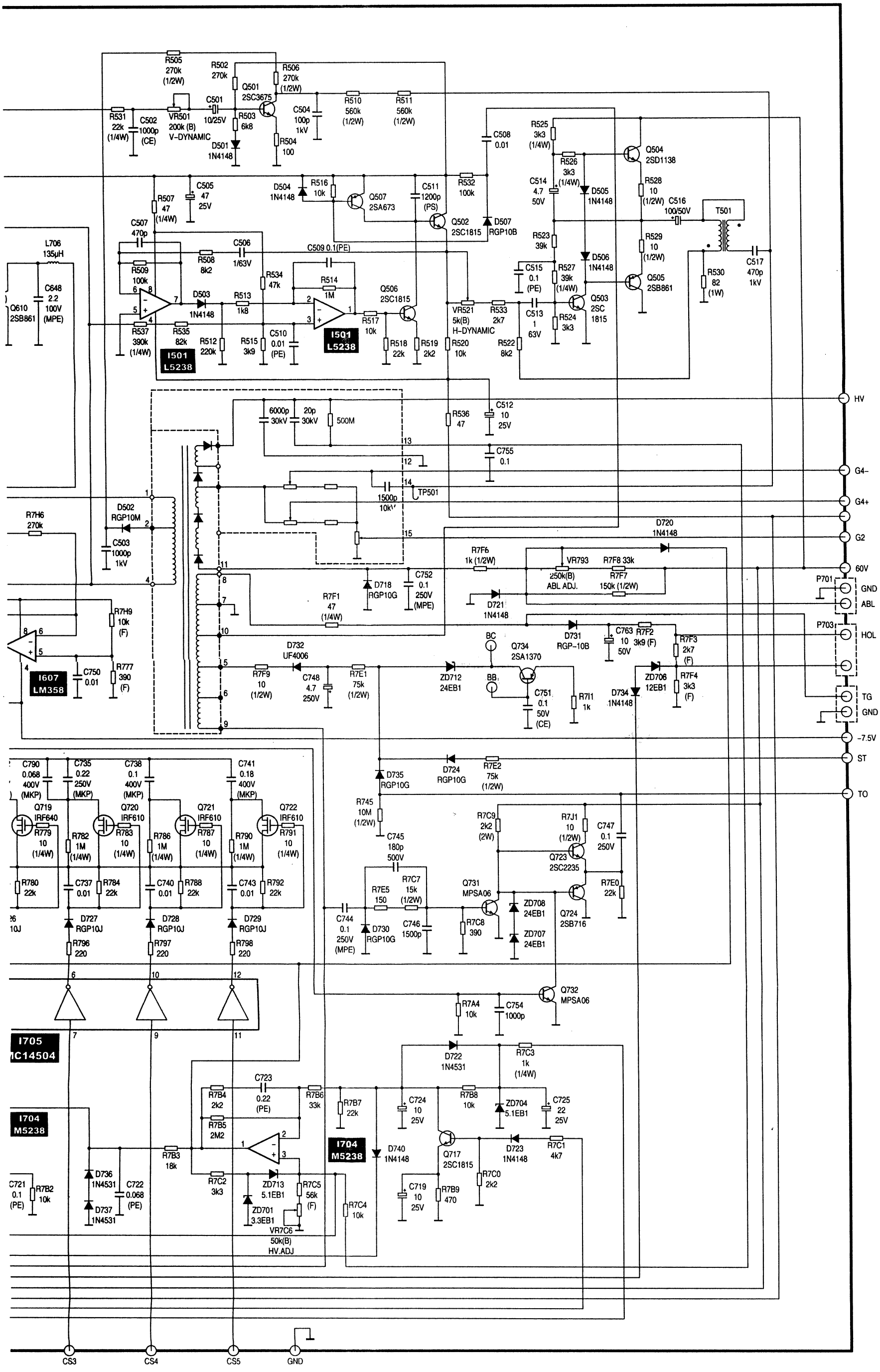
I102.I202.I302	CR2424 (PHILIPS)	CR2428 (MOTOROLA)
R137	220K 1/6W	62K 1/6W
R237.R337	220K 1/6W	NONE
R114	470 1/6W	1K 1/6W
R214.R314	390 1/6W	750 1/6W
C109.C209.C309	18PF 50V	10PF 50V
C112.C212.C312	47UF 100V 85°C	47UF 100V 100°C
R116.R216,R316	1.2K 1/4W	1.2K 1/4W
R152.R252,R352	130K 1/6W	
C129.C229.C329	82P 50V	




H-PHASE
V-SIZE
H-SIZE
V-CENTER
GND
24V
P601
R603 1k
R616 10k
R621 4k7(1/4W)
R619 10k
I602
R618 10k
R617 100k
VR613 2k (B) V-LIN
VR615 2k (B) PARALLE
C605 1 50V
R614 3k9
R613 10k
C606 10 25V
C624 0.47 50V
R651 4M7 (1/4W)
R648 56k
R649 470k
C608 4.7 25V
C611 0.022 (PE)
R650 10k
R647 220k
C612 100p
R604 6k8
R602 10k
R608 470 (1/4W)
R605 56k
R601 2k2
Q601 2SC1815
V+
C607 0.1 (PE)
D610 1N4148
C601 0.1 (PE)
R606 1k
R607 2k2
I602 LM324
R609 10k
C602 10 25V
R610 270k
R611 120k
R620 1k
R635
C610 1 50V
I601 TDA9102C
I608 MC14538
R636 10k
R637 15k
C619 0.47 63V
TP601
C616 1 50V
R643 82k
R644 680k
C614 330 25V
D603 1N4531
R638 2k2
Q603 2SC1815
C618 2.2 50V
C617 1 50V
R639 27k
R640 1k
VR541 2k V-HOLD
R642 3k9
16V
I707 7812
C767 330 25V
C768 1000 16V
C769 1000 16V
R612 470 (1/4W)
C766 100 25V
ZD705 5.1EB1
R659 39
GND
H+
R703 1k
R704 2k2
C701 150p
R705 33k
R706 7k5
D701 1N4148
R707 7k5
C703 10 25V
R701 5k6
Q701 2SC1815
R708 1k
R702 2k2
C702 220p
I708 IR9331
C707 0.1 (PE)
R722 220k
R723 47k
C708 0.01 (PE)
R724 30k
I702 LM358
D704 1N4531
R725 5k6
C709 10 25V
D705 1N4531
R726 1k5
C710 0.01 (PE)
R712 3k9
ZD715 RD10EB1
R710 5k1
R711 47k
C704 0.47 50V
VR708 2k (B) H-FT0V
R727 10k
I602 LM324
C742 0.47 50V
R752 10k
R753 1k
C711 0.47 50V
Q705 2SC1815
VR754 500 (B) H-HOLD
R755 240
R756 1k2
TP763
C770 47p
C771 47p
C772 0.022 (PE)
C773 100 25V
D708 1N4148
R761 330k (1/4W)
R728 390k
R730 12k
D715 1N4148
Q702 2SC1815
C785 1 50V
R729 10k
R7E9 10k
C786 10 25V
C706 0.47 50V
R731 4k7 (F)
R737 10k
(78kHz)
TP701
R732 1k8 (F)
I703 LM339
R738 10k
TP704
(64kHz)
R698
R733 240 (F)
R739 10k
(56kHz)
R734 1k5 (F)
R740 10k
(48kHz)
R735 4k7 (G) 1/4W
R750 22k
R749 10
R751 4k7
Q704 2SA673
56K TO POWER BOARD R906 CTL
I701 LM393
C705 1 50V
R714 10k
R718 10k
D706 1N4148
D707 1N4531
D703 1N4148
C736 1 50V
R720 1M
R715 100k
Q703 2SC1815
R713 10k
R721 10k
R719 1M
D702 1N4148
R717 2k2
C739 1 50V
R716 33k

PWB–2680–8

KEYSTONE
P602 SIDE PIN
R678 10k
Q605 2SC1815
R694 10k
D609 1N4148
R653 10 (2W) F
D608 1N4148
D604 1N4001
R652 1k (1/4W)
C619 100 50V
D607 1N4148
C631 0.1 (PE)
C632 680 25V
C792 2.2 50V
R712 120k
C650 10 16V
R599 180k
R654 470k
R655 470k
C620 0.01 (PE)
R668 75k
C630 10 25V
VR669 2k KEY STONE
R670 15k
R673 15k
R672
R674 10k
Q604 2SA673
C635 0.1 (PE)
I604 TDA8145
C633 100 35V
C634 10 25V
R675 82k
R679 82k
I606 M5238
R680 18k
C636 1000p
R677 10k
R676 22k
C645 1 50V
R681 10k
R682 10k
VR683 200k (B) SIDE PIN
C637 4700p
C638 4700p
R692 1k
I605 LM324
C643 10 50V
C642 0.001 (PE)
R690 1k
R691 220
I605 LM324
C640 0.01 (PE)
Q606 2SC1815
R693 10k
I607 LM358
R626 56k (2W)
R627 1M
C647 0.47 250V
C646 470p 500V
R634 1k
Q609 2SB716
Q608 2SC3467
R628 1M (1/4W)
R629 470
VR630 2k (B) H-SIZE
R631 1k2
I603 TDA8172
VR645 200k (B) V-CENTER
R646 120k
C615 0.1 (PE)
R664 5k6
R661 1.5 (1/4W)
R662 220 (1/2W)
V-DY
C626 0.22 (PE)
C627 0.1 (PE)
R663 10 (2W) F
C628 1000 25V
R665 2k2 (1/4W)
R666 1.6 (1/2W)
R667 1.6 (1/2W)
R696 1k
D613 1N 4531
D612 1N 4531
R697 150k (1/4W)
C649 4.7/50V
R770 1k (1/4W)
I605 LM324
R695 1k(1/4W)
C781 0.01 (PE)
R771 1k2 (F)
R772 16k (F)
R773 10k
R656 10k
D605 1N4148
C621 1 50V
R657 10k
R685 39k
R687 100k
Q607 2SC 1815
D611 1N4531
D615 1N4531
D614 1N4531
C639 1 50V
R686 100
ZD602 3.3EB1
R689 8k2
R684 22k
R688 3k3
C641 0.01 50V (PE)
C644 1000p
R632 470k (1/4W)
C622 0.1 (PE)
R658 390k
I606 M5238
R767
Q728
R741
Q727
R769
R768
R7H0
D746 1N4148
R7H1 10 (1/2W)
D710 MUR115
R7H2 1 (2W)
D711 MUR115
T703
R7H3 1 (2W)
R7H4 47 (1/2W)
C759 0.1 (PE)
ZD716 RD24EB
C757 100 50V
Q730 BU 2525AF
L707
H-DY
R7H5 1k
C782 0.01 (PE)
VLMF
R7H8 10 (2W)
R7H7 1M (1/4W)
Q710 2SA715
C765 33/16V
D742 RGP10D
R760 150 (2W)
L703 1083C
C749 220 16V
C623 0.1 (PE)
R633 12k
R660 22k (1/4W)
Q725 2SC1213
C756 0.022/50V (PE)
R762 1k (1/4W)
R763 22k
Q726 2SA673
R764 10 (1/4W)
Q729 MPF6661
R766 220 (1/2W)
C758 1000p 500V
C789 0.22 (PE)
R7J0 22 (1/2W)
D738 RGP10M
D739 1N4148
R765 22k
D712 MUR 10150
C761 6800p 1.6kV (MPE)
C762
R763 1k
R764 10k
R765 2k2
Q706 2SA673
R768 1k (1/4W)
R766 22k
C774 0.01 (PE)
C764 22p
R7I3 22
D705 HCR100-4
D709 1N4148
I801 TDA9102C
R767 1k
I706 7812
C783 10 25V
R769 3k3
C779 47 25V
C780 100 25V
R757 56k
R758 2k2
C777 3300p (PS)
R759 2k2
C776 1 50V
R760 2k2
C796 150p
C775 1000p (PS)
Q707 2S1815
Q708 2S1815
R762 1k
C778 150p 500V
Q718 H14N50
R775 10 (1/4W)
C727 0.018 630V
R774 1M (1/4W)
C730 0.047 630V (MKP)
C731 0.22 400V (MKP)
C732 1 250V (MPE)
R778 1M (1/4W)
C734 0.01
R743 10 (1/4W)
Q733 IRF730
R744 1M (1/4W)
C763 5600p 400V
C760 5600p 630V
D714 MUR8100E
R742 22k
C729 0.1
R776 22k
D725 RGP10J
D726 RGP10J
R794 220
ZD714 5.1EB1
R781 3k3
R795 220
R747 220
D713 RGP10J
C733 0.22 (PE)
Q712 2SC1162
L701 8mH
R7A5 330
C715 100 25V
D716 RGP15B
VR7A6 10k (B) H-CENTER
Q713 2SA715
R7A7 330
C716 100 25V
D717 RGP15B
T701
C791 390p 500V
C717 100 100V
D719 31DF2
Q714 IRF730
R7A8 10 (1W)
R7A9 10k
C718 22 250V
R7I8 39k
R7I9 120k (1/4W)
R799 220
C720 0.022 (PE)
Q716 2SA673
ZD702 18EB3
R7K0 2k7
D744 1N4148
Q715 2SC1213
R7B0 4k7
R7B1 22k
R761 560 (1/4W)
ZD703 12EB1
C726 22 25V
C721 0.1 (PE)
CS2


R505 270k (1/2W)
R502 270k
Q501 2SC3675
R506 270k (1/2W)
R531 22k (1/4W)
C502 1000p (CE)
VR501 200k (B) V-DYNAMIC
C501 10/25V
R503 6k8
D501 1N4148
R504 100
C504 100p 1kV
R510 560k (1/2W)
R511 560k (1/2W)
C508 0.01
R525 3k3 (1/4W)
Q504 2SD1138
R526 3k3 (1/4W)
C514 4.7 50V
D505 1N4148
R528 10 (1/2W)
C516 100/50V
T501
R507 47 (1/4W)
C505 47 25V
D504 1N4148
R516 10k
Q507 2SA673
C511 1200p (PS)
R532 100k
Q502 2SC1815
D507 RGP10B
C507 470p
C506 1/63V
C509 0.1(PE)
R508 8k2
R523 39k
D506 1N4148
R529 10 (1/2W)
C517 470p 1kV
R530 82 (1W)
L706 135µH
C648 2.2 100V (MPE)
Q610 2SB861
R509 100k
R534 47k
R514 1M
D503 1N4148
R513 1k8
Q506 2SC1815
C515 0.1 (PE)
R527 39k (1/4W)
Q505 2SB861
Q503 2SC 1815
VR521 5k(B) H-DYNAMIC
R533 2k7
C513 1 63V
R524 3k3
R537 390k (1/4W)
R535 82k
R512 220k
R515 3k9
C510 0.01 (PE)
R517 10k
R518 22k
R519 2k2
R520 10k
R522 8k2
I501 L5238
6000p 30kV
20p 30kV
500M
R536 47
C512 10 25V
C755 0.1
HV
G4-
G4+
G2
60V
1500p 10kV
TP501
D502 RGP10M
R7H6 270k
C503 1000p 1kV
D720 1N4148
R7F6 1k (1/2W)
VR793 250k(B) ABL ADJ.
R7F8 33k
R7F7 150k (1/2W)
P701
GND
ABL
D718 RGP10G
C752 0.1 250V (MPE)
R7F1 47 (1/4W)
D721 1N4148
P703
HOL
R7H9 10k (F)
D732 UF4006
BC
Q734 2SA1370
D731 RGP-10B
C763 10 50V
R7F2 3k9 (F)
R7F3 2k7 (F)
I607 LM358
C750 0.01
R777 390 (F)
R7F9 10 (1/2W)
C748 4.7 250V
R7E1 75k (1/2W)
ZD712 24EB1
BB
C751 0.1 50V (CE)
R7I1 1k
D734 1N4148
ZD706 12EB1
R7F4 3k3 (F)
TG
GND
-7.5V
ST
TO
C790 0.068 400V (MKP)
C735 0.22 250V (MKP)
C738 0.1 400V (MKP)
C741 0.18 400V (MKP)
D735 RGP10G
D724 RGP10G
R7E2 75k (1/2W)
Q719 IRF640
Q720 IRF610
Q721 IRF610
Q722 IRF610
R779 10 (1/4W)
R782 1M (1/4W)
R783 10 (1/4W)
R786 1M (1/4W)
R787 10 (1/4W)
R790 1M (1/4W)
R791 10 (1/4W)
R745 10M (1/2W)
R7C9 2k2 (2W)
R7J1 10 (1/2W)
C747 0.1 250V
C745 180p 500V
Q723 2SC2235
R780 22k
C737 0.01
R784 22k
C740 0.01
R788 22k
C743 0.01
R792 22k
R7E5 150
R7C7 15k (1/2W)
Q731 MPSA06
ZD708 24EB1
R7E0 22k
Q724 2SB716
D727 RGP10J
D728 RGP10J
D729 RGP10J
C744 0.1 250V (MPE)
D730 RGP10G
C746 1500p
R7C8 390
ZD707 24EB1
R796 220
R797 220
R798 220
Q732 MPSA06
R7A4 10k
C754 1000p
I705 C14504
D722 1N4531
R7C3 1k (1/4W)
C723 0.22 (PE)
R7B4 2k2
R7B6 33k
R7B7 22k
C724 10 25V
R7B8 10k
ZD704 5.1EB1
C725 22 25V
R7B5 2M2
I704 M5238
D740 1N4148
Q717 2SC1815
D723 1N4148
R7C1 4k7
R7B3 18k
R7C2 3k3
ZD713 5.1EB1
R7C5 56k (F)
C721 0.1 (PE)
R7B2 10k
D736 1N4531
C722 0.068 (PE)
D737 1N4531
ZD701 3.3EB1
VR7C6 50k(B) HV.ADJ
R7C4 10k
C719 10 25V
R7B9 470
R7C0 2k2
CS3
CS4
CS5
GND

PARTS LIST

	PRDAA6178D8W--A	BNC Connector
	QACC-1092D8I---	AC Power Cord (220V)
	QACC01126D8----	AC Power Cord (110V)
	QCNCD1136D8---A	D-sub Connector
	QCNCP1854D8----	X-Ray Test Pin
	QFSHC1002D8---A	Fuse Hold
	QPWB-2662D8--5-	CRT BOARD
	QPWB-2680D8--5-	DEF PWB
	QPWB-2769D8----	UP-2 PWB
	QPWB-2778D8----	ADG SW LED PWB
	QPWB-2788D8--2-	UP-1 PWB
	QPWB-2799D8--3-	SMPS PWB
	QPWB-2804D8--1-	POWER SAVING PWB
	QPWB-2807D8--2-	VIDEO BOARD
	QSOCC1337D8----	CRT Socket
	QSOCI1214T808--	IC Socket 8 Pin
	QSOCI1220T840--	IC Socket 40 Pin
	QSODS1081D8---B	Signal Cable
	RCILG1052D8---C	Adg Coil
	RCILG1057D8---A	Tilt Coil
	RFILN1028D8---A	AC Line Filter
	VBM41KKL180X11G	CRT
	VCNCP0021-----U	ST 1 Pin Plug
	VCNCP0024-----A	DY Plug 4 Pin
C001	VCDSDU1HL330J-P	33 pF, 50V, 5%, Ceramic
C002	VCEACU1CH106MIP	10 uF, 16V, 20%, Electrolytic
C003	VCEACU1EH107MIP	100 uF, 25V, 20%, Electrolytic
C004	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C005	VCEACU1CH106MIP	10 uF, 16V, 20%, Electrolytic
C007	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C012	VCDSDU1HL330J-P	33 pF, 50V, 5%, Ceramic
C015	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C016	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C017	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C018	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C019	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C020	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C021	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C022	VCEACU1EH476MIP	47 uF, 25V, 20%, Electrolytic
C023	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C024	VCEACU1EH476MIP	47 uF, 25V, 20%, Electrolytic
C025	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C101	VCTAKF1CX106K--	10 uF, 16V, 10%, Tantalum
C102	VCLESF1HT224M--	.22 uF, 50V, 20%, Mono. Ceramic
C103	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C104	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C105	VCLLET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C106	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C107	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C108	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C109	VCICET1HG100J-U	10 pF, 50V, 5%, Mono. Ceramic
C110	VCICET1HG100J-U	10 pF, 50V, 5%, Mono. Ceramic
C111	VCLESF2AT104M--	.1 uF, 100V, 20%, Mono. Ceramic
C112	VCEACF2AG476M--	470 uF, 100V, 20%, Electrolytic
C113	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C114	VCEACU2CY105Y-P	1 uF, 160V, Electrolytic

C117	VCTAKF1VX106M--	10 uF, 35V, 20%, Tantalum
C118	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C119	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C120	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic
C121	VCLEET1HT103M-U	.01 uF, 50V, 20%, Mono. Ceramic
C122	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C123	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C124	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic
C125	VCLEET1HT103M-U	.01 uF, 50V, 20%, Mono. Ceramic
C126	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C127	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C201	VCTAKF1CX106K--	10 uF, 16V, 10%, Tantalum
C202	VCLESF1HT224M--	.22 uF, 50V, 20%, Mono. Ceramic
C203	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C204	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C205	VCLLET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C206	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C207	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C208	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C209	VCICET1HG100J-U	10 pF, 50V, 5%, Mono. Ceramic
C210	VCICET1HG150J-U	15 pF, 50V, 5%, Mono. Ceramic
C211	VCLESF2AT104M--	.1 uF, 100V, 20%, Mono. Ceramic
C212	VCEACF2AG476M--	470 uF, 100V, 20%, Electrolytic
C213	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C214	VCEACU2CY105Y-P	1 uF, 160V, Electrolytic
C217	VCTAKF1VX106M--	10 uF, 35V, 20%, Tantalum
C218	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C219	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C220	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic
C221	VCLEET1HT103M-U	.01 uF, 50V, 20%, Mono. Ceramic
C222	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C223	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C224	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic
C225	VCLEET1HT103M-U	.01 uF, 50V, 20%, Mono. Ceramic
C226	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C227	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C301	VCTAKF1CX106K--	10 uF, 16V, 10%, Tantalum
C302	VCLESF1HT224M--	.22 uF, 50V, 20%, Mono. Ceramic
C303	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C304	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C305	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C306	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C307	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C308	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C309	VCICET1HG100J-U	10 pF, 50V, 5%, Mono. Ceramic
C310	VCICET1HG150J-U	15 pF, 50V, 5%, Mono. Ceramic
C311	VCLESF2AT104M--	.1 uF, 100V, 20%, Mono. Ceramic
C312	VCEACF2AG476M--	470 uF, 100V, 20%, Electrolytic
C313	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C314	VCEACU2CY105Y-P	1 uF, 160V, Electrolytic
C317	VCTAKF1VX106M--	10 uF, 35V, 20%, Tantalum
C318	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C319	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C320	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic
C321	VCLEET1HT103M-U	.01 uF, 50V, 20%, Mono. Ceramic
C322	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C323	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C324	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic

C325	VCLEET1HT103M-U	.01 uF, 50V, 20%, Mono. Ceramic
C326	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C327	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C401	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C402	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C403	VCKBDU1HY472K-P	4700 pF, 50V, 10%, Ceramic
C404	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C405	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C406	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C407	VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C408	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C409	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C410	VCICET1HG270J-U	27 pF, 50V, 5%, Mono. Ceramic
C411	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C412	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C413	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C414	VCKBDU1HY152K-P	1500 pF, 50V, 10%, Ceramic
C415	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C416	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C417	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C418	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C419	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C420	VCEACU1EG475MIP	4.7 uF, 25V, 20%, Electrolytic
C421	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C422	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C423	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C424	VCEACF1EG477M--	470 uF, 25V, 20%, Electrolytic
C425	VCEACF1CG108M--	1000 uF, 16V, 20%, Electrolytic
C426	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C429	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C430	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C431	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C432	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C433	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C434	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C437	VCEACU1VG336M-P	33 uF, 35V, 20%, Electrolytic
C438	VCICET1HG221J-U	220 pF, 50V, 5%, Mono. Ceramic
C439	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C440	VCLEET1HT223M-U	.022 uF, 50V, 20%, Mono. Ceramic
C441	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C442	VCEACU1CG106M-P	10 uF, 16V, 20%, Electrolytic
C443	VCICET1HG270J-U	27 pF, 50V, 5%M Mono. Ceramic
C444	VCICET1HG221J-U	220 pF, 50V, 5%, Mono. Ceramic
C445	VCEACU1CG476M-P	47 uF, 16V, 20%, Electrolytic
C446	VCLEET1HT103M-P	.01 uF, 50V, 20%, Mono. Ceramic
C447	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C448	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C449	VCLEET1HT104M-U	.1 uF, 50V, 20%, Mono. Ceramic
C450	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C451	VCKBEF3DY101K--	100 pF, 2KV, 10%, Ceramic
C452	VCKEEF3TY103Z--	.01 uF, 1.5KV, +80%-20%, Ceramic
C453	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C501	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C502	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C503	VCKBEF3AY102K--	1000 pF, 1KV, 10%, Ceramic
C504	VCKBEF3AY101K--	100 pF, 1KV, 10%, Ceramic
C505	VCEACU1EG476M-P	47 uF, 25V, 20%, Electrolytic
C506	VCMECF1JG105J--	1 uF, 63V, 5%, Meta. Polyester

C507	VCDSDU1HL471J-P	470 pF, 50V, 5%, Ceramic
C508	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C509	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C510	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C511	VCPSEF1HG122G--	1200 pF, 50V, 2%, Polystyrene
C512	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C513	VCMECF1JG105J--	1 uF, 63V, 5%, Meta. Polyester
C514	VCEACU1HG475M-P	4.7 uF, 50V, 20%, Electrolytic
C515	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C516	VCEACU1HH107MIP	100 uF, 50V, 20%, Electrolytic
C517	VCKBEF3AY471K--	470 pF, 1KV, 10%, Ceramic
C601	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C602	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C604	VCEACU1EG475MIP	4.7 uF, 25V, 20%, Electrolytic
C605	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C606	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C607	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C608	VCEACU1EG475MIP	4.7 uF, 25V, 20%, Electrolytic
C610	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C611	VCPELU1HG223J-P	.022 uF, 50V, 5%, Polyester
C612	VCDSDU1HL101J-P	100 pF, 50V, 5%, Ceramic
C613	VCEACU1HH107MIP	100 uF, 50V, 20%, Electrolytic
C614	VCEACF1EG337M--	330 uF, 25V, 20%, Electrolytic
C615	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C617	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C618	VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C619	VCMECU1JG474J-P	.47 uF, 63V, 5%, Meta. Polyester
C620	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C621	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C622	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C623	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C624	VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C626	VCPELF1HG224J--	.22 uF, 50V, 5%, Polyester
C627	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C628	VCEACF1EH108MI-	1000 uF, 25V, 20%, Electrolytic
C630	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C631	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C632	VCEACF1EG687M--	680 uF, 25V, 20%, Electrolytic
C633	VCEACU1VG107MIP	100 uF, 35V, 20%, Electrolytic
C634	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C635	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C636	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C637	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C638	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C639	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C640	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C641	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C643	VCENCU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C644	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C645	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C646	VCKBDU2HY471K-P	470 pF, 500V, 10%, Ceramic
C647	VCEACU2EH474MIP	.47 uF, 250V, 20%, Electrolytic
C648	VCMEQX2AG225K--	2.2 uF, 100V, 10%, Meta. Polyester
C649	VCEACU1HG475M-P	4.7 uF, 50V, 20%, Electrolytic
C650	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C701	VCDSDU1HL151J-P	150 pF, 50V, 5%, Ceramic
C702	VCDUDU1HJ221J-P	220 pF, 50V, 5%, Ceramic
C703	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic

C704	VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C705	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C706	VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C707	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C708	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C709	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C710	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C711	VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C715	VCEACU1EG107M-P	Second Source
C715	VCEACU1EG107MIP	100 uF, 25V, 20%, Electrolytic
C716	VCEACU1EG107M-P	Second Source
C716	VCEACU1EG107MIP	100 uF, 25V, 20%, Electrolytic
C717	VCEACF2AG107M--	100 uF, 100V, 20%, Electrolytic
C718	VCEBCF2EH226M--	22 uF, 250V, 20%, Electrolytic
C719	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C720	VCPELU1HG223J-P	.022 uF, 50V, 5%, Polyester
C721	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C722	VCPELU1HG683J-P	.068 uF, 50V, 5%, Polyester
C723	VCPELF1HG224J--	.22 uF, 50V, 5%, Polyester
C724	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C725	VCEACU1EG226M-P	22 uF, 25V, 20%, Electrolytic
C726	VCEACU1EG226M-P	22 uF, 25V, 20%, Electrolytic
C727	VCPPHF2JG183J--	.018 uF, 630V, 5%, Polypropylene
C729	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C730	VCMPHF2JY473JY-	.047 uF, 630V, 5%, Meta. Polypropylene
C731	VCMPHF2GY224JY-	.22 uF, 400V, 5%, Meta. Polypropylene
C732	VCMPHF2EY105JY-	1 uF, 250V, 5%, Meta. Polypropylene
C733	VCPELF1HG224J--	.22 uF, 50V, 5%, Polyester
C734	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C735	VCMPHF2EY224JY-	.22 uF, 250V, 5%, Meta. Polypropylene
C736	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C737	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C738	RC-MZ104JD82G--	Second Source
C738	VCMPHF2GY104JY-	.1 uF, 400V, 5%, Meta. Polypropylene
C739	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C740	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C741	VCMPHF2GY184JY-	.18 uF, 400V, 5%, Meta. Polypropylene
C742	VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C743	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C744	VCMECF2EG104J--	.1 uF, 250V, 5%, Meta. Polyester
C745	VCKBDU2HY181K-P	180 pF, 500V, 10%, Ceramic
C746	VCKBDU1HY152K-P	1500 pF, 50V, 10%, Ceramic
C747	VCMEHF2EG104K--	.1 uF, 250V, 10%, Meta. Polyester
C748	VCEACF2EH475MI-	4.7 uF, 250V, 20%, Electrolytic
C749	VCEACU1CG227M-P	220 uF, 16V, 20%, Electrolytic
C750	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C751	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C752	VCMECF2EG104J--	.1 uF, 250V, 5%, Meta. Polyester
C753	VCEACU1HG106M-P	10 uF, 50V, 20%, Electrolytic
C754	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C755	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C756	VCPELU1HG223J-P	.022 uF, 50V, 5%, Polyester
C757	VCEACU1HH107MIP	100 uF, 50V, 20%, Electrolytic
C758	VCKBDU2HY102K-P	1000 pF, 500V, 10%, Ceramic
C759	VCPELU1HG104J-P	.1 uF, 50V, 5%, Polyester
C760	VCPPHF2JG562J--	5600 pF, 630V, 5%, Polypropylene
C761	VCMPHF3DG682JY-	6800 pF, 2KV, 5%, Meta. Polypropylene
C763	VCPPHF2GG562J--	5600 pF, 400V, 5%, Polypropylene

C765	VCEACU1CG336M-P	33 uF, 16V, 20%, Electrolytic
C766	VCEACU1EG107M-P	Second Source
C766	VCEACU1EG107MIP	100 uF, 25V, 20%, Electrolytic
C767	VCEACF1EG337M--	330 uF, 25V, 20%, Electrolytic
C768	VCEACF1CH108MI-	1000 uF, 16V, 20%, Electrolytic
C769	VCEACF1CH108MI-	1000 uF, 16V, 20%, Electrolytic
C770	VCDSDU1HL470J-P	47 pF, 50V, 5%, Ceramic
C771	VCDSDU1HL470J-P	47 pF, 50V, 5%, Ceramic
C772	VCPELU1HG223J-P	.022 uF, 50V, 5%, Polyester
C773	VCEACU1EG107M-P	Second Source
C773	VCEACU1EG107MIP	100 uF, 25V, 20%, Electrolytic
C774	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C775	VCPSEF1HG102G--	1000 pF, 50V, 2%, Polystyrene
C776	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C777	VCPSEF1HG332G--	3300 pF, 50V, 2%, Polystyrene
C778	VCKBDU2HY151K-P	150 pF, 500V, 10%, Ceramic
C779	VCEACU1HH476MIP	47 uF, 50V, 20%, Electrolytic
C780	VCEACU1EG107M-P	Second Source
C780	VCEACU1EG107MIP	100 uF, 25V, 20%, Electrolytic
C781	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C782	VCPELU1HG103J-P	.01 uF, 50V, 5%, Polyester
C783	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C784	VCDSDU1HL220J-P	22 pF, 50V, 5%, Ceramic
C785	VCEACU1HG105M-P	1 uF, 50V, 20%, Electrolytic
C786	VCEACU1EG106M-P	10 uF, 25V, 20%, Electrolytic
C789	VCPELF1HG224J--	.22 uF, 50V, 5%, Polyester
C790	RC-MZ683JD82G--	Second Source
C790	VCMPHF2GY683JY-	.068 uF, 400V, 5%, Meta. Polypropylene
C791	VCKBDU2HY391K-P	390 pF, 500V, 10%, Ceramic
C792	VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C796	VCDSDU1HL151J-P	150 pF, 50V, 5%, Ceramic
C801	VCEACF2GH335MI-	3.3 uF, 400V, 20%, Electrolytic
C802	VCKEDU2HY472-P-	4700 pF, 500V, +100%-0%, Ceramic
C803	VCDSEF3DL470J--	47 pF, 2KV, 5%, Ceramic
C804	VCEACU1VG476M-P	47 uF, 35V, 20%, Electrolytic
C805	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C806	VCPSEF1HG272J--	2700 pF, 50V, 5%, Polystyrene
C807	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C808	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C809	VCDSDU1HL471J-P	470 pF, 50V, 5%, Ceramic
C810	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C811	VCEACU1HG225M-P	2.2 uF, 50V, 20%, Electrolytic
C814	VCEACU1EG227MIP	220 uF, 25V, 20%, Electrolytic
C815	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C816	VCEACF1CG108M--	1000 uF, 16V, 20%, Electrolytic
C817	VCEACU1CG227M-P	220 uF, 16V, 20%, Electrolytic
C818	VCEACF1CG336M--	33 uF, 16V, 20%, Electrolytic
C819	VCEACU1CG227M-P	220 uF, 16V, 20%, Electrolytic
C820	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C821	VCEACU1CG336M-P	33 uF, 16V, 20%, Electrolytic
C822	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C823	VCKFDU1HY103Z-P	.01 uF, 50V, +80%-20%, Ceramic
C824	VCPELU1HG183J-P	.018 uF, 50V, 5%, Polyester
C825	VCEACU1HG224M-P	.22 uF, 50V, 20%, Electrolytic
C826	VCEACU1CG107M-P	100 uF, 16V, 20%, Electrolytic
C901	VCMEBU7EG104MX1	.1 uF, 250V, 20%, Meta. Polyester
C902	VCMEBF7EG224MX-	.22 uF, 250V, 20%, Meta. Polyester
C910	VCMEHF2GG473K--	.047 uF, 400V, 10%, Meta. Polyester

C911	VCLEET1HT104M-U	.1 uF, 50V, 20%, Monolithic Ceramic
C912	VCEACF2WY335M--	3.3 uF, 450V, 20%, Electrolytic
C913	VCEACU1EG107M-P	Second Source
C913	VCEACU1EG107MIP	100 uF, 25V, 20%, Electrolytic
C914	VCEALS2EH477MI-	470 uF, 250V, 20%, Electrolytic
C915	VCEALS2EH477MI-	470 uF, 250V, 20%, Electrolytic
C916	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
C917	VCEACU1HG336M-P	33 uF, 50V, 20%, Electrolytic
C918	VCKEEF3TY103Z--	.01 uF, 1.5KV, +80%-20%, Ceramic
C919	VCKBEF3DY221K--	220 pF, 2KV, 10%, Ceramic
C920	VCKBDU2HY102K-P	1000 pF, 500V, 10%, Ceramic
C921	VCPSEF1HG272G--	2700 pF, 50V, 2%, Polystyrene
C922	VCLEET1HT103M-U	.01 uF, 50V, 20%, Monolithic Ceramic
C923	VCKBDU2HY222K-P	2200 pF, 500V, 10%, Ceramic
C924	VCLEET1HT103M-U	.01 uF, 50V, 20%, Monolithic Ceramic
C925	VCEACU1VG476M-P	47 uF, 35V, 20%, Electrolytic
C926	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C927	VCEACU1HH225MIP	2.2 uF, 50V, 20%, Electrolytic
C929	VCKBDU1HY102K-P	1000 pF, 50V, 10%, Ceramic
C930	VCKFEF3AY103Z--	.01 uF, 1KV, +80%-20%, Ceramic
C934	VCKBEF3AY221K--	220 pF, 1KV, 10%, Ceramic
C935	VCKEDF2HY103P--	.01 uF, 500V, +100%-0%, Ceramic
C936	VCEACF2AG337M--	330 uF, 100V, 20%, Electrolytic
C937	VCEACF2AG337M--	330 uF, 100V, 20%, Electrolytic
C939	VCEACF1VG477M--	470 uF, 35V, 20%, Electrolytic
C940	VCEACF1VG477M--	470 uF, 35V, 20%, Electrolytic
C942	VCKBDU2HY271K-P	270 pF, 500V, 10%, Ceramic
C943	VCEACF1VG477M--	470 uF, 35V, 20%, Electrolytic
C944	VCEACF1VG477M--	470 uF, 35V, 20%, Electrolytic
C945	VCKBDU2HY102K-P	1000 pF, 500V, 10%, Ceramic
C946	VCEICF1CH108MI-	1000 uF, 16V, 20%, Electrolytic
C947	VCEICF1CH108MI-	1000 uF, 16V, 20%, Electrolytic
C949	VCEACU1VG107MIP	100 uF, 35V, 20%, Electrolytic
C950	VCEACU1VG107MIP	100 uF, 35V, 20%, Electrolytic
C952	VCEACU1HG474M-P	.47 uF, 50V, 20%, Electrolytic
C953	VCKFDF7BY222MX3	2200 pF, 125V, 20%, Ceramic
C954	VCKFDF7BY222MX3	2200 pF, 125V, 20%, Ceramic
C957	VCKBDU1HY471K-P	470 pF, 50V, 10%, Ceramic
C971	VCEACF2GH106MI-	1000 uF, 400V, 20%, Electrolytic
C972	VCEACU1HH105MIP	1 uF, 50V, 20%, Electrolytic
C973	VCSFDU1HY104Z-P	.1 uF, 50V, +80%-20%, Ceramic
D009	VSD1N4148-----T	1N4148 Diode
D010	VSD1N4148-----T	1N4148 Diode
D011	VSD1N4148-----T	1N4148 Diode
D013	VSD1N4148-----T	1N4148 Diode
D014	VSD1N4148-----T	1N4148 Diode
D015	VSD1N4148-----T	1N4148 Diode
D016	VSD1N4148-----T	1N4148 Diode
D017	VSD1N4148-----T	1N4148 Diode
D018	VSD1N4148-----T	1N4148 Diode
D019	VSD1N4148-----T	1N4148 Diode
D050	VSPRT3-534YGS--	LED
D051	VSD1N4531-----T	1N4531 Diode
D052	VSD1N4531-----T	1N4531 Diode
D101	VSD1SS83------T	1SS83 Diode
D102	VSD1SS83------T	1SS83 Diode
D103	VSD1N4148-----T	1N4148 Diode
D104	VSD1N4531-----T	1N4531 Diode

D105	VSD1N4531-----T	1N4531 Diode
D106	VSD1N4531-----T	1N4531 Diode
D107	VSD1N4531-----T	1N4531 Diode
D201	VSD1SS83------T	1SS83 Diode
D202	VSD1SS83------T	1SS83 Diode
D203	VSD1N4148-----T	1N4148 Diode
D204	VSD1N4531-----T	1N4531 Diode
D205	VSD1N4531-----T	1N4531 Diode
D206	VSD1N4531-----T	1N4531 Diode
D207	VSD1N4531-----T	1N4531 Diode
D301	VSD1SS83------T	1SS83 Diode
D302	VSD1SS83------T	1SS83 Diode
D303	VSD1N4148-----T	1N4148 Diode
D304	VSD1N4531-----T	1N4531 Diode
D305	VSD1N4531-----T	1N4531 Diode
D306	VSD1N4531-----T	1N4531 Diode
D307	VSD1N4531-----T	1N4531 Diode
D401	VSD1N4148-----T	1N4148 Diode
D402	VSD1N4148-----T	1N4148 Diode
D403	VSD1N4531-----T	1N4531 Diode
D404	VSD1N4531-----T	1N4531 Diode
D405	VSD1N4531-----T	1N4531 Diode
D406	VSD1N4148-----T	1N4148 Diode
D409	VSD1N4002-----U	1N4002 Diode
D411	VSD1N4002-----U	1N4002 Diode
D412	VSD1N4531-----T	1N4531 Diode
D413	VSD1N4148-----T	1N4148 Diode
D414	VSD1N4531-----T	1N4531 Diode
D415	VSD1N4531-----T	1N4531 Diode
D416	VSD1N4531-----T	1N4531 Diode
D417	VSD1N4531-----T	1N4531 Diode
D418	VSD1N4531-----T	1N4531 Diode
D419	VSD1N4531-----T	1N4531 Diode
D420	VSD1N4531-----T	1N4531 Diode
D421	VSD1N4531-----T	1N4531 Diode
D422	VSD1N4148-----T	1N4148 Diode
D501	VSD1N4148-----T	1N4148 Diode
D502	VSDRGP10M-----U	RGP10M Diode
D503	VSD1N4148-----T	1N4148 Diode
D504	VSD1N4148-----T	1N4148 Diode
D505	VSD1N4148-----T	1N4148 Diode
D506	VSD1N4148-----T	1N4148 Diode
D507	VSDRGP10B-----U	RGP10B Diode
D603	VSD1N4531-----T	1N4531 Diode
D604	VSD1N4001-----U	1N4001 Diode
D605	VSD1N4148-----T	1N4148 Diode
D607	VSD1N4148-----T	1N4148 Diode
D608	VSD1N4148-----T	1N4148 Diode
D609	VSD1N4148-----T	1N4148 Diode
D610	VSD1N4148-----T	1N4148 Diode
D611	VSD1N4531-----T	1N4531 Diode
D612	VSD1N4531-----T	1N4531 Diode
D613	VSD1N4531-----T	1N4531 Diode
D614	VSD1N4531-----T	1N4531 Diode
D615	VSD1N4531-----T	1N4531 Diode
D701	VSD1N4148-----T	1N4148 Diode
D702	VSD1N4148-----T	1N4148 Diode
D703	VSD1N4148-----T	1N4148 Diode

D704	VSD1N4531-----T	1N4531 Diode
D705	VSD1N4531-----T	1N4531 Diode
D706	VSD1N4148-----T	1N4148 Diode
D707	VSD1N4531-----T	1N4531 Diode
D708	VSD1N4148-----T	1N4148 Diode
D709	VSD1N4148-----T	1N4148 Diode
D710	VSDMUR115-----U	MUR115 Diode
D711	VSDMUR115-----U	MUR115 Diode
D712	VSDBY329-------	BY329 Diode
D712	VSDMUR10120E---	Second Source
D713	VSDRGP10J-----U	RGP10J Diode
D714	VSDMUR8100E----	MUR8100E Diode
D715	VSD1N4148-----T	1N4148 Diode
D716	VSDRGP15B-----U	RGP15B Diode
D717	VSDRGP15B-----U	RGP15B Diode
D718	VSDRGP10G-----U	RGP10G Diode
D719	VSD31DF2-------	31DF2 Diode
D720	VSD1N4148-----T	1N4148 Diode
D721	VSD1N4148-----T	1N4148 Diode
D722	VSD1N4531-----T	1N4531 Diode
D723	VSD1N4148-----T	1N4148 Diode
D724	VSDRGP10G-----U	RGP10G Diode
D725	VSDRGP10J-----U	RGP10J Diode
D726	VSDRGP10J-----U	RGP10J Diode
D727	VSDRGP10J-----U	RGP10J Diode
D728	VSDRGP10J-----U	RGP10J Diode
D729	VSDRGP10J-----U	RGP10J Diode
D730	VSDRGP10G-----U	RGP10G Diode
D731	VSDRGP10B-----U	RGP10B Diode
D732	VSDUF4006-----U	UF4006 Diode
D734	VSD1N4148-----T	1N4148 Diode
D735	VSDRGP10G-----U	RGP10G Diode
D736	VSD1N4531-----T	1N4531 Diode
D737	VSD1N4531-----T	1N4531 Diode
D738	VSDRGP10M-----U	RGP10M Diode
D739	VSD1N4148-----T	1N4148 Diode
D740	VSD1N4148-----T	1N4148 Diode
D742	VSDRGP10D-----U	RGP10D Diode
D744	VSD1N4148-----T	1N4148 Diode
D746	VSD1N4148-----T	1N4148 Diode
D801	VSDRU2BLFA1----	RU2B Diode
D802	VSD1SS83------T	1SS83 Diode
D803	QJUM-1045D8100-	Jumper
D804	VSD1N4148-----T	1N4148 Diode
D805	VSDBYV95A-----U	BYV95A Diode
D806	VSDRK36LFB1----	RK36 Diode
D807	VSD1N4148-----T	1N4148 Diode
D808	VSD1N4148-----T	1N4148 Diode
D809	VSD1N4148-----T	1N4148 Diode
D810	VSD1N4148-----T	1N4148 Diode
D811	VSD1N4148-----T	1N4148 Diode
D812	VSD1N4148-----T	1N4148 Diode
D813	VSD1N4148-----T	1N4148 Diode
D814	VSD1N4148-----T	1N4148 Diode
D815	VSD1N4148-----T	1N4148 Diode
D816	VSD1N4148-----T	1N4148 Diode
D818	VSD1N4148-----T	1N4148 Diode
D819	VSD1N4531-----T	1N4531 Diode

D903	VSD1N4007-----U	1N4007 Diode
D904	RSRCB1039D8----	RBV-406 Rectifier Bridge Diode
D906	VSDRG2ALF-A1-2-	RG2A Diode
D907	VSDBYV95A-----U	BYV95A Diode
D908	VSD1N4148-----T	1N4148 Diode
D909	VSD1N4148-----T	1N4148 Diode
D911	VSD1N4148-----T	1N4148 Diode
D914	VSDMUR460------	MUR460 Diode
D915	VSDMUR460------	MUR460 Diode
D916	VSDRG4-LFL1--2-	RG4 Diode
D917	VSDRG4-LFL1--2-	RG4 Diode
D918	VSDRK46LFL1----	RK46 Diode
D919	VSDRG4-LFL1--2-	RG4 Diode
D920	VSDRG4-LFL1--2-	RG4 Diode
D921	VSD1N4148-----T	1N4148 Diode
D956	VSP2535FYSG----	LED
D971	VSD1N4007-----U	1N4007 Diode
F901	QFS-D312SD82XH-	AC Fuse 3.15A 250V
F902	QFS-Z202FD82W--	DC Fuse 2A 250V
I001	VSI80C51P2B--3-	Microprocessor IC
I002	VSILM7805CT----	Second Source
I002	VSIL7805CV---Y-	Second Source
I002	VSIMCT7805CT-M-	Second Source
I002	VSIMC7805CT----	MC7805CT 5V Regulator IC
I004	VSIAT24C0210PC-	E2 Prom IC
I005	VSIM62358P---L-	DAC IC
I006	VSI74LS221-----	74LS221 Monostable Multivibrator IC
I007	VSILM358N------	LM358N Operation Amplifier
I101	VSILM1201----N-	LM1201 Video Pre Amp. IC
I102	VSICR2424----M-	Video Driver Hybrid Amplifier IC
I201	VSILM1201----N-	LM1201 Video Pre Amp. IC
I202	VSICR2424----M-	Video Driver Hybrid Amplifier IC
I301	VSILM1201----N-	LM1201 Video Pre Amp. IC
I302	VSICR2424----M-	Video Driver Hybrid Amplifier IC
I401	VSITC4066BP----	TC4066BP Quad. Bilateral Switch IC
I402	VSIM52036SP----	M52036SP Sync Processor IC
I403	VSI74LS221-----	74LS221 Monostable Multivibrator IC
I404	VSILM324N------	LM324N Operational Amplifier IC
I405	VSILM7812CT----	Second Source
I405	VSIL7812CV---Y-	Second Source
I405	VSIMCT7812CT-M-	Second Source
I405	VSIMC7812CT----	MC7812CT 12V Voltage Regulator IC
I407	VSIMC7905CT----	MC7905CT -5V Voltage Regulator IC
I501	VSIHC5238------	HC5238 Operational Amplifiec IC
I601	VSITDA9102C----	TDA9102C H/V Processor IC
I602	VSILM324N------	LM324N Operational Amplifiec IC
I603	VSITDA8172-----	TDA8172 Vertical Deflection IC
I604	VSITDA8145-----	TDA8145 E/W Correction Circuit IC
I605	VSILM324N------	LM324N Operational Amplifiec IC
I606	VSIHC5238------	HC5238 Operational Amplifiec IC
I608	VSIMC14538BCP--	Percision Monostable Multivibrator
I701	VSILM393N----Y-	LM393N Operational Amplifiec IC
I702	VSILM358N------	LM358N Operational Amplifiec IC
I703	VSILMT339N---M-	Second Source
I703	VSILM339N------	LM339N Operational Amplifiec IC
I704	VSIHC5238------	HC5238 Operational Amplifiec IC
I705	VSIMC14504BCP--	MC14504BCP Hex Level Shifter IC
I706	VSILM7812CT----	Second Source

I706	VSIL7812CV---Y-	Second Source
I706	VSIMCT7812CT-M-	Second Source
I706	VSIMC7812CT----	MC7812CT 12V Voltage Regulator IC
I707	VSILM7812CT----	Second Source
I707	VSIL7812CV---Y-	Second Source
I707	VSIMCT7812CT-M-	Second Source
I707	VSIMC7812CT----	MC7812CT 12V Voltage Regulator IC
I708	VSIIR9331------	IR9331 V/F Converter IC
I801	VSIUC3842------	Second Source
I801	VSIUC3842----Y-	Current Mode PWM Controller IC
I802	VSILM324N------	LM324N Operational Amplifier IC
I803	VSPPC111LY-----	Second Source
I803	VSPTLP734F-GRD-	TLP734 Photo Coupler
I902	VSISTR81145A---	STR81145A AC Power Sensor IC
I903	VSIUC3842------	Second Source
I903	VSIUC3842----Y-	UC3842 Current PWM Controller IC
I905	VSPPC111LY-----	Second Source
I905	VSPTLP734F-GRD-	TLP734F Photo Coupler
I906	VSITL431CLP----	TL431CLP Prog. Precision Ref.
I907	VSPPC111LY-----	Second Source
I907	VSPTLP734F-GRD-	TLP734F Photo Coupler
J1	QJUM-1045D8050-	Jumper
J1	QJUM-1045D8100-	Jumper
J1	QJUM-1045D8150-	Jumper
J4	QJUM-1045D8100-	Jumper
J5	QJUM-1045D8100-	Jumper
J6	QJUM-1045D8100-	Jumper
J7	QJUM-1045D8100-	Jumper
J8	QJUM-1045D8100-	Jumper
J9	QJUM-1045D8050-	Jumper
J10	QJUM-1045D8050-	Jumper
J10	QJUM-1045D8150-	Jumper
J11	QJUM-1045D8150-	Jumper
J12	QJUM-1045D8150-	Jumper
J13	QJUM-1045D8050-	Jumper
J14	QJUM-1045D8100-	Jumper
J15	QJUM-0002D8100-	Jumper
J15	QJUM-1045D8050-	umperJ
J16	QJUM-1045D8150-	Jumper
J17	QJUM-1045D8100-	Jumper
J18	QJUM-1045D8100-	Jumper
J19	QJUM-1045D8100-	Jumper
J19	QJUM-1045D8150-	Jumper
J2	QJUM-1045D8100-	Jumper
J2	QJUM-1045D8150-	Jumper
J20	QJUM-1045D8050-	Jumper
J20	QJUM-1045D8100-	Jumper
J20	QJUM-1045D8150-	Jumper
J21	QJUM-1045D8150-	Jumper
J22	QJUM-1045D8100-	Jumper
J23	QJUM-1045D8050-	Jumper
J24	QJUM-1045D8100-	Jumper
J24	QJUM-1045D8150-	Jumper
J25	QJUM-1045D8150-	Jumper
J26	QJUM-1045D8100-	Jumper
J27	QJUM-1045D8150-	Jumper
J29	QJUM-1045D8100-	Jumper
J3	QJUM-1045D8150-	Jumper

J30	QJUM-1045D8100-	Jumper
J31	QJUM-1045D8050-	Jumper
J32	QJUM-1045D8050-	Jumper
J32	QJUM-1045D8150-	Jumper
J33	QJUM-1045D8150-	Jumper
J34	QJUM-1045D8100-	Jumper
J35	QJUM-1045D8100-	Jumper
J36	QJUM-1045D8150-	Jumper
J37	QJUM-1045D8050-	Jumper
J37	QJUM-1045D8150-	Jumper
J38	QJUM-1045D8100-	Jumper
J39	QJUM-1045D8150-	Jumper
J40	QJUM-1045D8150-	Jumper
J41	QJUM-1045D8150-	Jumper
J42	QJUM-1045D8100-	Jumper
J43	QJUM-1045D8150-	Jumper
J44	QJUM-1045D8050-	Jumper
J45	QJUM-1045D8050-	Jumper
J46	QJUM-1045D8100-	Jumper
J47	QJUM-1045D8050-	Jumper
J49	QJUM-1045D8100-	Jumper
J5	QJUM-1045D8100-	Jumper
J50	QJUM-1045D8050-	Jumper
J51	QJUM-1045D8050-	Jumper
J52	QJUM-1045D8050-	Jumper
J53	QJUM-1045D8100-	Jumper
J54	QJUM-1045D8050-	Jumper
J55	QJUM-1045D8100-	Jumper
J56	QJUM-1045D8100-	Jumper
J57	QJUM-1045D8100-	Jumper
J58	QJUM-1045D8100-	Jumper
J59	QJUM-1045D8100-	Jumper
J6	QJUM-1045D8100-	Jumper
J60	QJUM-1045D8150-	Jumper
J61	QJUM-1045D8100-	Jumper
J62	QJUM-1045D8100-	Jumper
J63	QJUM-1045D8100-	Jumper
J64	QJUM-1045D8100-	Jumper
J65	QJUM-1045D8150-	Jumper
J66	QJUM-1045D8050-	Jumper
J67	QJUM-1045D8050-	Jumper
J68	QJUM-1045D8100-	Jumper
J69	QJUM-1045D8050-	Jumper
J7	QJUM-1045D8150-	Jumper
J70	QJUM-1045D8100-	Jumper
J71	QJUM-1045D8050-	Jumper
J73	QJUM-1045D8050-	Jumper
J74	QJUM-1045D8100-	Jumper
J75	QJUM-1045D8100-	Jumper
J76	QJUM-1045D8050-	Jumper
J78	QJUM-1045D8050-	Jumper
J79	QJUM-1045D8150-	Jumper
J8	QJUM-1045D8100-	Jumper
J80	QJUM-1045D8100-	Jumper
J81	QJUM-1045D8050-	Jumper
J82	QJUM-1045D8100-	Jumper
J83	QJUM-1045D8100-	Jumper
J84	QJUM-1045D8050-	Jumper

J85	QJUM-1045D8100-	Jumper
J86	QJUM-1045D8100-	Jumper
J87	QJUM-1045D8050-	Jumper
L150	VL-EHR47M0000-T	Coil
L250	VL-EHR47M0000-T	Coil
L350	VL-EHR47M0000-T	Coil
L400	RCORA1018T8----	Bead Core
L401	RCORA1018T8----	Bead Core
L450	RCORA1016T8----	Bead Core
L451	RCORA1018T8---A	Bead Core
L701	RCHO-1106D8----	Choke
L703	RCILL1083D8---C	Coil H-lin
L706	RCHO-2687D8----	Choke
L707	RCORA1022D8----	Bead Core
L901	RCILF1076D8----	Choke
L904	RCHOL1052D8----	Choke
L905	RCHO-1059D8----	Choke
L906	RCHO-1051D8----	Choke
L907	RCHO-1059D8----	Choke
L908	RCHO-1051D8----	Choke
L909	RCHO-1108D8----	Choke
L910	RCORA1022D8----	Bead Core
PTH901	VSQ451A5R0M14--	Posistor
PTH902	VSQ451C270N----	Posistor
P001	VCNCP0046-JJST-	6 Pin Plug
P002	VCNCP0045-JJST-	5 Pin Plug
P003	VCNCP0903SEJST-	3 Pin Plug
P004	VCNCP0046-JJST-	6 Pin Plug
P005	VCNCP004A-JJST-	10 Pin Plug
P006	VCNCP0042-JJST-	2 Pin Plug
P007	VCNCP004C-JJST-	12 Pin Plug
P403	VCNCP0043-JJST-	3 Pin Plug
P404	VCNCP0042-JJST-	2 Pin Plug
P407	VCNCP0044-JJST-	4 Pin Plug
P602	VCNCP0042-JJST-	2 Pin Plug
P801	VCNCP0045-JJST-	5 Pin Plug
P802	VCNCP0046-JJST-	6 Pin Plug
P803	VCNCP0042-JJST-	2 Pin Plug
P804	VCNCP0044-JJST-	4 Pin Plug
P805	VCNCP0021-----U	1 Pin Plug
P901	QCNCP1850D8----	Plug
P902	QCNCP1851D8----	Plug
P903	VCNCP0052-JJST-	2 Pin Plug
P904	VCNCP0055-JJST-	5 Pin Plug
P905	VCNCP0056-JJST-	6 Pin Plug
P906	VCNCP0118-PJST-	8 Pin Plug
Q002	VST2SC1162C----	2SC1162C Transistor
Q003	VST2SA715C-----	2SA715C Transistor
Q101	VST2SC3950-----	2SC3950 Transistor
Q102	VST2SC1906----P	2SC1906 Transistor
Q103	VST2SC1906----P	2SC1906 Transistor
Q104	VST2SB716D---HP	2SB716D Transistor
Q201	VST2SC3950-----	2SC3950 Transistor
Q202	VST2SC1906----P	2SC1906 Transistor
Q203	VST2SC1906----P	2SC1906 Transistor
Q204	VST2SB716D---HP	2SB716D Transistor
Q301	VST2SC3950-----	2SC3950 Transistor
Q302	VST2SC1906----P	2SC1906 Transistor

Q303	VST2SC1906----P	2SC1906 Transistor
Q304	VST2SB716D---HP	2SB716D Transistor
Q402	VST2SC1815Y---P	2SC1815Y Transistor
Q403	VST2SA1625MLT4P	2SA1625MLT40 Transistor
Q404	VSTMPS2222---M-	MPS2222 Transistor
Q405	VST2SC1815Y---P	2SC1815Y Transistor
Q406	VST2SC1815Y---P	2SC1815Y Transistor
Q407	VST2SC1815Y---P	2SC1815Y Transistor
Q501	VST2SC3675-----	2SC3675 Transistor
Q502	VST2SC1815Y---P	2SC1815Y Transistor
Q503	VST2SC1815Y---P	2SC1815Y Transistor
Q504	VST2SD1138C----	2SD1138C Transistor
Q505	VST2SB861C-----	2SB861C Transistor
Q506	VST2SC1815Y---P	2SC1815Y Transistor
Q507	VST2SA673C----P	2SA673C Transistor
Q601	VST2SC1815Y---P	2SC1815Y Transistor
Q603	VST2SC1815Y---P	2SC1815Y Transistor
Q604	VST2SA673C----P	2SA673C Transistor
Q605	VST2SC1815Y---P	2SC1815Y Transistor
Q606	VST2SC1815Y---P	2SC1815Y Transistor
Q607	VST2SC1815Y---P	2SC1815Y Transistor
Q608	VST2SC3467DE-EP	2SC3467DE Transistor
Q609	VST2SB716D---HP	2SB716D Transistor
Q610	VST2SB861C-----	2SB861C Transistor
Q701	VST2SC1815Y---P	2SC1815Y Transistor
Q702	VST2SC1815Y---P	2SC1815Y Transistor
Q703	VST2SC1815Y---P	2SC1815Y Transistor
Q704	VST2SA673C----P	2SA673C Transistor
Q705	VST2SC1815Y---P	2SC1815Y Transistor
Q706	VST2SA673C----P	2SA673C Transistor
Q707	VST2SC1815Y---P	2SC1815Y Transistor
Q708	VST2SC1815Y---P	2SC1815Y Transistor
Q709	VSSBT169B----3P	BT169B SCR
Q710	VST2SA715C-----	2SA715C Transistor
Q712	VST2SC1162C----	2SC1162C Transistor
Q713	VST2SA715C-----	2SA715C Transistor
Q714	VSTIRF730------	Second Source
Q714	VSTIRF730----8-	IRF730 FET
Q715	VST2SC1213C---P	2SC1213C Transistor
Q716	VST2SA673C----P	2SA673C Transistor
Q717	VST2SC1815Y---P	2SC1815Y Transistor
Q718	VSTSTH14N50--Y-	STH14N50 FET
Q719	VSTIRF640------	IRF640 FET
Q719	VSTIRF640----8-	Second Source
Q720	VSTIRF610------	IRF610 FET
Q721	VSTIRF610------	IRF610 FET
Q722	VSTIRF610------	IRF610 FET
Q723	VST2SC2235---DP	2SC2235 Transistor
Q724	VST2SB716D---HP	2SB716D Transistor
Q725	VST2SC1213C---P	2SC1213C Transistor
Q726	VST2SA673C----P	2SA673C Transistor
Q729	VSTMPF6661-----	MPF6661 Transistor
Q730	VSTBU2525AF--3-	BU2525AF Transistor
Q731	VSTMPSA06----MP	MPSA06 Transistor
Q732	VSTMPSA06----MP	MPSA06 Transistor
Q733	VSTIRF730------	Second Source
Q733	VSTIRF730----8-	IRF730 FET
Q734	VST2SA1370DE-EP	2SA1370DE Transistor

Q801	VSTSTP2N80---Y-	STP2N80 Transistor
Q802	VST2SD655E---HP	2SD655E Transistor
Q803	VST2SD655E---HP	2SD655E Transistor
Q804	VST2SA1015Y---P	2SA1015Y Transistor
Q805	VST2SC1815Y---P	2SC1815Y Transistor
Q807	VST2SA1015Y---P	2SA1015Y Transistor
Q901	VST2SC1815Y---P	2SC1815Y Transistor
Q902	VST2SA844D----P	2SA844D Transistor
Q903	VST2SK1462-----	Second Source
Q903	VST2SK2078---D-	2SK2078 Transistor
Q903	VST2SK956-01-V-	Second Source
Q904	VST2SC1815Y---P	2SC1815Y Transistor
Q905	VST2SC1815Y---P	2SC1815Y Transistor
Q971	VST2SC1213C---P	2SC1213C Transistor
Q972	VSTIRF730----8-	IRF730 FET
RL901	RRLYD1069D8DXJA	Relay
RL971	RRLYD1059D8FD-A	Relay
R001	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R002	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R003	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R004	VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R005	VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R006	VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R007	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R008	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R009	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R010	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R011	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R012	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R013	VRMPTV6--123J-T	12K ohm, 1/6W, 5%, Metal Film
R014	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R016	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R017	VRMPTV6--470J-T	47 ohm, 1/6W, 5%, Metal Film
R018	VRMPTV6--470J-T	47 ohm, 1/6W, 5%, Metal Film
R019	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R020	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R022	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R023	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R024	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R025	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R026	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R027	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R028	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R029	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R030	VRMPTV6--22IJ-T	220 ohm, 1/6W, 5%, Metal Film
R031	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R035	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R036	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R037	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R038	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R039	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R040	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R041	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R042	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R046	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R048	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R049	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R050	VRMPTV6--331J-T	330 ohm, 1/6W, 5%, Metal Film

R051	VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film
R052	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R053	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R054	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R055	VRMPTV6--273J-T	27K ohm, 1/6W, 5%, Metal Film
R056	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R057	VRMPTV6--123J-T	12K ohm, 1/6W, 5%, Metal Film
R058	VRMPTV6--474J-T	470K ohm, 1/6W, 5%, Metal Film
R059	VRMPTV6--303J-T	30K ohm, 1/6W, 5%, Metal Film
R060	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R061	VRMPTV6--303J-T	30K ohm, 1/6W, 5%, Metal Film
R062	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R063	VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R064	VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R065	VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R066	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R067	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R068	VRNMK03--220J--	22 ohm, 3W, 5%, Metal Oxide Film
R069	VRCMTV2--331J-U	330 ohm, 1/2W, 5%, Carbon Film
R070	VRCMTV2--100J-U	10 ohm, 1/2W, 5%, Carbon Film
R071	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R072	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R073	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R074	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R075	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R076	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R077	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R078	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R079	VRMPTV6--471J-T	47 ohm, 1/6W, 5%, Metal Film
R080	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R081	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R082	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R083	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R084	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R085	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R086	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R087	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R101	VRMPTV4--750J-T	75 ohm, 1/4W, 5%, Metal Film
R102	VRMPTV4--103J-T	10K ohm, 1/4W, 5%, Metal Film
R103	QJUM-1045D8100-	Jumper
R104	VRMPTV6--120J-T	12 ohm, 1/6W, 5%, Metal Film
R105	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R106	VRMPTV4--222J-T	2.2K ohm, 1/4W, 5%, Metal Film
R107	VRMPTV6-5101F-T	5.1K ohm, 1/6W, 5%, Metal Film
R108	VRCMTV2--821J-U	820 ohm, 1/2W, 5%, Carbon Film
R109	VRMPTV4-54R9F-T	54.9 ohm, 1/4W, 1%, Metal Film
R110	VRMPTV6-6801F-T	6.8K ohm, 1/6W, 1%, Metal Film
R111	VRMPTV6-5601F-T	5.6K ohm, 1/6W, 1%, Metal Film
R112	VRNMK02--161J--	160 ohm, 2W, 5%, Metal Oxide Film
R113	VRMPTV6--331J-T	330 ohm, 1/6W, 5%, Metal Film
R114	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R115	VRMPTV6--821J-T	820 ohm, 1/6W, 5%, Metal Film
R116	VRMPTV4--821J-T	820 ohm, 1/4W, 5%, Metal Film
R117	VRMPTV4-2202F-T	22K ohm, 1/4W, 1%, Metal Film
R118	VRMPTV4-2202F-T	22K ohm, 1/4W, 1%, Metal Film
R119	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R120	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R121	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film

R122	VRMPTV4--123J-T	12K ohm, 1/4W, 5%, Metal Film
R123	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R124	VRMPTV6--151J-T	150 ohm, 1/6W, 5%, Metal Film
R125	VRMPTV4--750J-T	75 ohm, 1/4W, 5%, Metal Film
R126	VRMPTV4--123J-T	12K ohm, 1/4W, 5%, Metal Film
R127	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R128	VRMPTV4--101J-T	100 ohm, 1/4W, 5%, Metal Film
R129	VRMPTV4--4R7J-T	4.7 ohm, 1/4W, 5%, Metal Film
R130	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R131	VRMPTV6-4701F-T	4.7K ohm, 1/6W, 1%, Metal Film
R132	VRMPTV6-1501F-T	1.5K ohm, 1/6W, 5%, Metal Film
R133	VRMPTV6--362J-T	3.6K ohm, 1/6W, 5%, Metal Film
R134	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R137	VRMPTV6--623J-T	62K ohm, 1/6W, 5%, Metal Film
R140	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R141	VRMPTV6--220J-T	22 ohm, 1/6W, 5%, Metal Film
R142	VRMPTV6--220J-T	22 ohm, 1/6W, 5%, Metal Film
R150	VRSPTV2--101J-U	100 ohm, 1/2W, Carbon Compsition
R150	VRSPTV2--101K-U	Second Source
R151	VRMPTV6--511J-T	510 ohm, 1/6W, 5%, Metal Film
R201	VRMPTV4--750J-T	75 ohm, 1/4W, 5%, Metal Film
R202	VRMPTV4--103J-T	10K ohm, 1/4W, 5%, Metal Film
R203	QJUM-1045D8100-	Jumper
R204	VRMPTV6--120J-T	12 ohm, 1/6W, 5%, Metal Film
R205	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R206	VRMPTV4--222J-T	2.2K ohm, 1/4W, 5%, Metal Film
R207	VRMPTV6-5101F-T	5.1K ohm, 1/6W, 5%, Metal Film
R208	VRCMTV2--821J-U	820 ohm, 1/2W, 5%, Carbon Film
R209	VRMPTV4-54R9F-T	54.9 ohm, 1/4W, 1%, Metal Film
R210	VRMPTV6-6801F-T	6.8K ohm, 1/6W, 1%, Metal Film
R211	VRMPTV6-5601F-T	5.6K ohm, 1/6W, 1%, Metal Film
R212	VRNMK02--161J--	160 ohm, 2W, 5%, Metal Oxide Film
R213	VRMPTV6--331J-T	330 ohm, 1/6W, 5%, Metal Film
R214	VRMPTV6--751J-T	750 ohm, 1/6W, 5%, Metal Film
R215	VRMPTV6--621J-T	620 ohm, 1/6W, 5%, Metal Film
R216	VRMPTV4--821J-T	820 ohm, 1/4W, 5%, Metal Film
R217	VRMPTV4-2202F-T	22K ohm, 1/4W, 1%, Metal Film
R218	VRMPTV4-2202F-T	22K ohm, 1/4W, 1%, Metal Film
R219	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R220	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R221	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R222	VRMPTV4--123J-T	12K ohm, 1/4W, 5%, Metal Film
R223	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R224	VRMPTV6--151J-T	150 ohm, 1/6W, 5%, Metal Film
R225	VRMPTV4--750J-T	75 ohm, 1/4W, 5%, Metal Film
R226	VRMPTV4--123J-T	12K ohm, 1/4W, 5%, Metal Film
R227	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R228	VRMPTV4--101J-T	100 ohm, 1/4W, 5%, Metal Film
R229	VRMPTV4--4R7J-T	4.7 ohm, 1/4W, 5%, Metal Film
R230	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R231	VRMPTV6-4701F-T	4.7K ohm, 1/6W, 1%, Metal Film
R232	VRMPTV6-1501F-T	1.5K ohm, 1/6W, 5%, Metal Film
R233	VRMPTV6--362J-T	3.6K ohm, 1/6W, 5%, Metal Film
R234	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R235	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R240	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R241	VRMPTV6--220J-T	22 ohm, 1/6W, 5%, Metal Film
R242	VRMPTV6--220J-T	22 ohm, 1/6W, 5%, Metal Film

R250	VRSPTV2--101J-U	100 ohm, 1/2W, Carbon Compsition
R250	VRSPTV2--101K-U	Second Source
R251	VRMPTV6--511J-T	510 ohm, 1/6W, 5%, Metal Film
R301	VRMPTV4--750J-T	75 ohm, 1/4W, 5%, Metal Film
R302	VRMPTV4--103J-T	10K ohm, 1/4W, 5%, Metal Film
R303	QJUM-1045D8100-	Jumper
R304	VRMPTV6--120J-T	12 ohm, 1/6W, 5%, Metal Film
R305	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R306	VRMPTV4--222J-T	2.2K ohm, 1/4W, 5%, Metal Film
R307	VRMPTV6-5101F-T	5.1K ohm, 1/6W, 5%, Metal Film
R308	VRCMTV2--821J-U	820 ohm, 1/2W, 5%, Carbon Film
R309	VRMPTV4-54R9F-T	54.9 ohm, 1/4W, 1%, Metal Film
R310	VRMPTV6-6801F-T	6.8K ohm, 1/6W, 1%, Metal Film
R311	VRMPTV6-5601F-T	5.6K ohm, 1/6W, 1%, Metal Film
R312	VRNMK02--161J--	160 ohm, 2W, 5%, Metal Oxide Film
R313	VRMPTV6--331J-T	330 ohm, 1/6W, 5%, Metal Film
R314	VRMPTV6--751J-T	750 ohm, 1/6W, 5%, Metal Film
R315	VRMPTV6--621J-T	620 ohm, 1/6W, 5%, Metal Film
R316	VRMPTV4--821J-T	820 ohm, 1/4W, 5%, Metal Film
R317	VRMPTV4-2202F-T	22K ohm, 1/4W, 1%, Metal Film
R318	VRMPTV4-2202F-T	22K ohm, 1/4W, 1%, Metal Film
R319	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R320	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R321	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R322	VRMPTV4--123J-T	12K ohm, 1/4W, 5%, Metal Film
R323	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R324	VRMPTV6--151J-T	150 ohm, 1/6W, 5%, Metal Film
R325	VRMPTV4--750J-T	75 ohm, 1/4W, 5%, Metal Film
R326	VRMPTV4--123J-T	12K ohm, 1/4W, 5%, Metal Film
R327	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R328	VRMPTV4--101J-T	100 ohm, 1/4W, 5%, Metal Film
R329	VRMPTV4--4R7J-T	4.7 ohm, 1/4W, 5%, Metal Film
R330	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R331	VRMPTV6-4701F-T	4.7K ohm, 1/6W, 1%, Metal Film
R332	VRMPTV6-1501F-T	1.5K ohm, 1/6W, 5%, Metal Film
R333	VRMPTV6--362J-T	3.6K ohm, 1/6W, 5%, Metal Film
R334	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R335	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R340	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R341	VRMPTV6--220J-T	22 ohm, 1/6W, 5%, Metal Film
R342	VRMPTV6--220J-T	22 ohm, 1/6W, 5%, Metal Film
R350	VRSPTV2--101J-U	100 ohm, 1/2W, Carbon Compsition
R350	VRSPTV2--101K-U	Second Source
R351	VRMPTV6--511J-T	510 ohm, 1/6W, 5%, Metal Film
R4A0	VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R4A1	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R4B1	VRMPTV4--1R0J-T	1 ohm, 1/4W, 5%, Metal Film
R4B2	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R4B3	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R4B4	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R401	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R402	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R403	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R404	VRMPTV6--154J-T	150K ohm, 1/6W, 5%, Metal Film
R407	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R408	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R409	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R410	VRMPTV6--6R8J-T	6.8 ohm, 1/6W, 5%, Metal Film

R411	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R412	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R413	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R414	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R415	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R416	VRCMTV2--470J-U	47 ohm, 1/2W, 5%, Carbon Film
R417	VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R418	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R419	VRMPTV6--302J-T	3K ohm, 1/6W, 5%, Metal Film
R420	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R421	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R422	VRMPTV6--563J-T	56K ohm, 1/6W, 5%, Metal Film
R423	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R428	VRMPTV6--122J-T	1.2K ohm, 1/6W, 5%, Metal Film
R429	VRMPTV6--202J-T	2K ohm, 1/6W, 5%, Metal Film
R430	VRMPTV6--202J-T	2K ohm, 1/6W, 5%, Metal Film
R431	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R432	VRCMTV2--103J-U	10K ohm, 1/2W, 5%, Carbon Film
R433	VRMPTV6--824J-T	820K ohm, 1/6W, 5%, Metal Film
R434	VRMPTV6--6R8J-T	6.8 ohm, 1/6W, 5%, Metal Film
R435	VRMPTV4--220J-T	22 ohm, 1/4W, 5%, Metal Film
R436	VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R437	VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R441	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R442	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R443	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R444	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R445	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R446	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R447	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R448	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R449	VRMPTV6--302J-T	3K ohm, 1/6W, 5%, Metal Film
R450	VRLCP05--1R8J--	1.8 ohm, 5W, 5%, Cement
R451	VRSPTV2--101J-U	100 ohm, 1/2W, Carbon Compsition
R451	VRSPTV2--101K-U	Second Source
R452	VRSPTV2--105K-U	1M ohm, 1/2W, 5%, Carbon Composition
R453	VRSPTV2--102J-U	1K ohm, 1/2W, 5%, Carbon Composition
R502	VRMPTV6--274J-T	270K ohm, 1/6W, 5%, Metal Film
R503	VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R504	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R505	VRCMTV2--274J-U	270K ohm, 1/2W, 5%, Carbon Film
R506	VRCMTV2--274J-U	270K ohm, 1/2W, 5%, Carbon Film
R507	VRMPTV4--470J-T	47 ohm, 1/4W, 5%, Metal Film
R508	VRMPTV6--822J-T	8.2K ohm, 1/6W, 5%, Metal Film
R509	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R510	VRCMTV2--564J-U	560K ohm, 1/2W, 5%, Carbon Film
R511	VRCMTV2--564J-U	560K ohm, 1/2W, 5%, Carbon Film
R512	VRMPTV6--224J-T	220K ohm, 1/6W, 5%, Metal Film
R513	VRMPTV6--182J-T	1.8K ohm, 1/6W, 5%, Metal Film
R514	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R515	VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R516	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R517	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R518	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R519	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R520	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R522	VRMPTV6--822J-T	8.2K ohm, 1/6W, 5%, Metal Film
R523	VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film

R524	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R525	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R526	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R527	VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film
R528	VRCMTV2--100J-U	10 ohm, 1/2W, 5%, Carbon Film
R529	VRCMTV2--100J-U	10 ohm, 1/2W, 5%, Carbon Film
R530	VRNMK01--820J--	82 ohm, 1W, 5%, Metal oxide Film
R531	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R532	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R533	VRMPTV6--272J-T	2.7K ohm, 1/6W, 5%, Metal Film
R534	VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R535	VRMPTV6--823J-T	82K ohm, 1/6W, 5%, Metal Film
R536	VRMPTV6--470J-T	47 ohm, 1/6W, 5%, Metal Film
R537	VRMPTV4--394J-T	390K ohm, 1/4W, 5%, Metal Film
R601	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R602	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R603	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R604	VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R605	VRMPTV6--683J-T	56K ohm, 1/6W, 5%, Metal Film
R606	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R607	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R608	VRMPTV4--471J-T	470 ohm, 1/4W, 5%, Metal Film
R609	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R610	VRMPTV6--274J-T	270K ohm, 1/6W, 5%, Metal Film
R611	VRMPTV6--124J-T	120K ohm, 1/6W, 5%, Metal Film
R612	VRMPTV4--471J-T	470 ohm, 1/4W, 5%, Metal Film
R613	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R614	VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R617	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R618	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R619	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R620	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R621	VRMPTV4--472J-T	4.7K ohm, 1/4W, 5%, Metal Film
R626	VRNMK02--563J--	56K ohm, 2W, 5%, Metal Oxide Film
R627	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R628	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R629	VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R631	VRMPTV6--122J-T	1.2K ohm, 1/6W, 5%, Metal Film
R632	VRMPTV4--474J-T	470K ohm, 1/4W, 5%, Metal Film
R633	VRMPTV6--123J-T	12K ohm, 1/6W, 5%, Metal Film
R634	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R636	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R637	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R638	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R639	VRMPTV6--273J-T	27K ohm, 1/6W, 5%, Metal Film
R640	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R642	VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R643	VRMPTV6--823J-T	82K ohm, 1/6W, 5%, Metal Film
R644	VRMPTV6--684J-T	680K ohm, 1/6W, 5%, Metal Film
R646	VRMPTV6--124J-T	120K ohm, 1/6W, 5%, Metal Film
R647	VRMPTV6--224J-T	220K ohm, 1/6W, 5%, Metal Film
R648	VRMPTV6--563J-T	56K ohm, 1/6W, 5%, Metal Film
R649	VRMPTV6--474J-T	470K ohm, 1/6W, 5%, Metal Film
R650	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R651	VRMPTV4--475J-T	4.7M ohm, 1/4W, 5%, Metal Film
R652	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R653	VRFPK02--100J--	10 ohm, 2W, 5%, Fuse Resistor
R654	VRMPTV6--474J-T	470K ohm, 1/6W, 5%, Metal Film

R655	VRMPTV6--474J-T	470K ohm, 1/6W, 5%, Metal Film
R656	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R657	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R658	VRMPTV6--394J-T	390K ohm, 1/6W, 5%, Metal Film
R659	VRMPTV6--394J-T	390K ohm, 1/6W, 5%, Metal Film
R660	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R661	VRMPTV4--1R5J-T	1.5 ohm, 1/4W, 5%, Metal Film
R662	VRCMTV2--221J-U	220 ohm, 1/2W, 5%, Carbon Film
R663	VRFPK02--100J--	10 ohm, 2W, 5%, Fuse Resistor
R664	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R665	VRMPTV4--222J-T	2.2K ohm, 1/4W, 5%, Metal Film
R666	VRCMTV2--1R8J-U	1.8 ohm, 1/2W, 5%, Carbon Film
R667	VRCMTV2--1R8J-U	1.8 ohm, 1/2W, 5%, Carbon Film
R668	VRMPTV6--753J-T	75K ohm, 1/6W, 5%, Metal Film
R670	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R671	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R673	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R674	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R675	VRMPTV6--823J-T	82K ohm, 1/6W, 5%, Metal Film
R676	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R677	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R678	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R679	VRMPTV6--823J-T	82K ohm, 1/6W, 5%, Metal Film
R680	VRMPTV6--183J-T	18K ohm, 1/6W, 5%, Metal Film
R681	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R682	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R684	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R685	VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film
R686	VRMPTV6--101J-T	100 ohm, 1/6W, 5%, Metal Film
R687	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R688	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R689	VRMPTV6--822J-T	8.2K ohm, 1/6W, 5%, Metal Film
R690	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R691	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R692	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R693	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R694	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R695	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R696	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R697	VRMPTV4--154J-T	150K ohm, 1/4W, 5%, Metal Film
R699	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R7A4	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R7A5	VRMPTV6--331J-T	330 ohm, 1/6W, 5%, Metal Film
R7A7	VRMPTV6--331J-T	330 ohm, 1/6W, 5%, Metal Film
R7A8	VRNMK01--100J--	10 ohm, 1W, 5%, Metal Oxide Film
R7A9	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R7B0	VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R7B1	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R7B2	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R7B3	VRMPTV6--183J-T	18K ohm, 1/6W, 5%, Metal Film
R7B4	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R7B5	VRMPTV6--225J-T	2.2M ohm, 1/6W, 5%, Metal Film
R7B6	VRMPTV6--333J-T	33K ohm, 1/6W, 5%, Metal Film
R7B7	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R7B8	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R7B9	VRMPTV6--471J-T	470 ohm, 1/6W, 5%, Metal Film
R7C0	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R7C1	VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film

R7C2	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R7C3	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R7C4	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R7C5	VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R7C7	VRCMTV2--153J-U	15K ohm, 1/2W, 5%, Carbon Film
R7C8	VRMPTV6--391J-T	390 ohm, 1/6W, 5%, Metal Film
R7C9	VRNMK02--222J--	2.2K ohm, 2W, 5%, Metal Oxide Film
R7E0	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R7E1	VRCMTV2--753J-U	75K ohm, 1/2W, 5%, Carbon Film
R7E2	VRCMTV2--243J-U	24K ohm, 1/2W, 5%, Carbon Film
R7E5	VRMPTV6--151J-T	150 ohm, 1/6W, 5%, Metal Film
R7E9	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R7F1	VRMPTV4--470J-T	47 ohm, 1/4W, 5%, Metal Film
R7F2	VRMPTV6-3901F-T	3.9K ohm, 1.6W, 1%, Metal Film
R7F3	VRMPTV6-2701F-T	2.7K ohm, 1/6W, 1%, Metal Film
R7F4	VRMPTV6-3901F-T	3.9K ohm, 1/6W, 1%, Metal Film
R7F6	VRCMTV2--102J-U	1K ohm, 1/2W, 5%, Carbon Film
R7F7	VRCMTV2--154J-U	150K ohm, 1/2W, 5%, Carbon Film
R7F8	VRMPTV6--333J-T	33K ohm, 1/6W, 5%, Metal Film
R7F9	VRMPTV4--100J-T	10 ohm, 1/4W, 5%, Metal Film
R7G0	VRNMK02--151J--	150 ohm, 2W, 5%, Metal oxide Film
R7G1	VRMPTV4--561J-T	560 ohm, 1/4W, 5%, Metal Film
R7G2	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R7G3	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R7G4	VRMPTV6--100J-T	10 ohm, 1/4W, 5%, Metal Film
R7G5	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R7G6	VRCMTV2--221J-U	220 ohm, 1/2W, 5%, Carbon Film
R7H1	VRFPKV2--100J--	10 ohm, 2W, 5%, Fuse Resistor
R7H2	VRNMK02--1R0J--	1 ohm, 2W, 5%, Metal Oxide Film
R7H3	VRNMK02--1R0J--	1 ohm, 2W, 5%, Metal Oxide Film
R7H4	VRCMTV2--470J-U	47 ohm, 1/2W, 5%, Carbon Film
R7H5	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R7H7	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R7H8	VRNMK02--100J--	10 ohm, 2W, 5%, Metal Oxide Film
R7H9	VRMPTV6-1002F-T	10K ohm, 1/6W, 1%, Metal Film
R7I1	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R7I2	VRMPTV6--124J-T	120K ohm, 1/6W, 5%, Metal Film
R7I3	VRCMTV2--220J-U	22 ohm, 1/2W, 5%, Carbon Film
R7I8	VRMPTV6--393J-T	39K ohm, 1/6W, 5%, Metal Film
R7I9	VRMPTV4--124J-T	120K ohm, 1/4W, 5%, Metal Film
R7J0	VRCMTV2--220J-U	22 ohm, 1/2W, 5%, Carbon Film
R7J1	VRMPTV4--100J-T	10 ohm, 1/4W, 5%, Metal Film
R7K0	VRMPTV6--272J-T	2.7K ohm, 1/6W, 5%, Metal Film
R701	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R702	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R703	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R704	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R705	VRMPTV6--333J-T	33K ohm, 1/6W, 5%, Metal Film
R706	VRMPTV6--752J-T	7.5K ohm, 1/6W, 5%, Metal Film
R707	VRMPTV6--752J-T	7.5K ohm, 1/6W, 5%, Metal Film
R708	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R710	VRMPTV6--512J-T	5.1K ohm, 1/6W, 5%, Metal Film
R711	VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R712	VRMPTV6--392J-T	3.9K ohm, 1/6W, 5%, Metal Film
R713	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R714	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R715	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R716	VRMPTV6--333J-T	33K ohm, 1/6W, 5%, Metal Film

R717	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R718	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R719	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R720	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R721	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R722	VRMPTV6--224J-T	220K ohm, 1/6W, 5%, Metal Film
R723	VRMPTV6--473J-T	47K ohm, 1/6W, 5%, Metal Film
R724	VRMPTV6--303J-T	30K ohm, 1/6W, 5%, Metal Film
R725	VRMPTV6--562J-T	5.6K ohm, 1/6W, 5%, Metal Film
R726	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R727	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R728	VRMPTV6--394J-T	390K ohm, 1/6W, 5%, Metal Film
R729	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R730	VRMPTV6--123J-T	12K ohm, 1/6W, 5%, Metal Film
R731	VRMPTV6-4701F-T	4.7K ohm, 1/6W, 5%, Metal Film
R732	VRMPTV6-1801F-T	1.8K ohm, 1/6W, 1%, Metal Film
R733	VRMPTV6-2400F-T	2.4K ohm, 1/6W, 1%, Metal Film
R734	VRMPTV6-1501F-T	1.5K ohm, 1/6W, 1%, Metal Film
R735	VRMPTV4--472G-T	4.7K ohm, 1/4W, 2%, Metal Film
R737	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R738	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R739	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R740	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R742	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R743	VRMPTV4--100J-T	10 ohm, 1/4W, 5%, Metal Film
R744	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R745	VRCMTV2--106J-T	10M ohm, 1/2W, 5%, Carbon Film
R747	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R749	VRMPTV6--100J-T	10 ohm, 1/6W, 5%, Metal Film
R750	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R751	VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R752	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R753	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R755	VRMPTV6--241J-T	240 ohm, 1/6W, 5%, Metal Film
R756	VRMPTV6--122J-T	1.2K ohm, 1/6W, 5%, Metal Film
R757	VRMPTV6--563J-T	56K ohm, 1/6W, 5%, Metal Film
R758	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R759	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R760	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R761	VRMPTV4--334J-T	330K ohm, 1/4W, 5%, Metal Film
R762	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R764	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R765	VRMPTV6--222J-T	2.2K ohm, 1/6W, 5%, Metal Film
R766	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R767	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R768	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R769	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R770	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R771	VRMPTV6-1101F-T	1K ohm, 1/6W, 1%, Metal Film
R772	VRMPTV6-1602F-T	16K ohm, 1/6W, 5%, Metal Film
R773	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R774	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R775	VRMPTV4--100J-T	10 ohm, 1/4W, 5%, Metal Film
R776	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R777	VRMPTV6-3900F-T	3.9K ohm, 1/6w, 1%, Metal Film
R778	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R779	VRMPTV4--100J-T	10 ohm, 1/4W, 5%, Metal Film
R780	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film

R781	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R782	VRMPTV4--105J-T	1M ohm, 1/4W, 5%, Metal Film
R783	VRMPTV4--100J-T	10 ohm, 1/4W, 5%, Metal Film
R784	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R786	VRMPTV6--105J-T	1M ohm, 1/4W, 5%, Metal Film
R787	VRMPTV6--100J-T	10 ohm, 1/4W, 5%, Metal Film
R788	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R790	VRMPTV6--105J-T	1M ohm, 1/4W, 5%, Metal Film
R791	VRMPTV6--100J-T	10 ohm, 1/4W, 5%, Metal Film
R792	VRMPTV6--223J-T	22K ohm, 1/6W, 5%, Metal Film
R794	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R795	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R796	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R797	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R798	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R799	VRMPTV6--221J-T	220 ohm, 1/6W, 5%, Metal Film
R801	VRNMK02--104J--	100K ohm, 2W, 5%, Metal Oxide Film
R802	VRNMK02--823J--	82K ohm, 2W, 5%, Metal Oxide Film
R803	VRNMK02--333J--	33K ohm, 2W, 5%, Metal Oxide Film
R804	VRNMK02--333J--	33K ohm, 2W, 5%, Metal Oxide Film
R805	VRNMK03--562J--	5.6K ohm, 3W, 5%, Metal oxide Film
R806	VRCMTV2--220J-U	22 ohm, 1/2W, 5%, Carbon Film
R807	VRCMTV2--220J-U	22 ohm, 1/2W, 5%, Carbon Film
R809	VRMPTV6--183J-T	18K ohm, 1/6W, 5%, Metal Film
R810	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R811	VRMPTV6--682J-T	6.8K ohm, 1/6W, 5%, Metal Film
R812	VRMPTV6-6801F-T	6.8K ohm, 1/6W, 1%, Metal Film
R813	VRMPTV6-5102F-T	5.1K ohm, 1/6W, 1%, Metal Film
R814	VRMPTV6-9101F-T	9K ohm, 1/6W, 1%, Metal Film
R815	VRMPTV4--120J-T	12 ohm, 1/4W, 5%, Metal Film
R816	VRMPTV6--4R7J-T	4.7 ohm, 1/6W, 5%, Metal Film
R817	VRMPTV6--152J-T	1.5K ohm, 1/6W, 5%, Metal Film
R818	VRMPTV4--473J-T	47K ohm, 1/4W, 5%, Metal Film
R819	VRNMK02--4R7J--	4.7 ohm, 2W, 5%, Metal Oxide Film
R820	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R821	VRMPTV6--153J-T	15K ohm, 1/6W, 5%, Metal Film
R822	VRMPTV6--472J-T	4.7K ohm, 1/6W, 5%, Metal Film
R823	VRNMK01--560J--	56 ohm, 1W, 5%, Metal Oxide Film
R824	VRMPTV6--102J-T	1K ohm, 1/6W, 5%, Metal Film
R825	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R826	VRMPTV6--4R7J-T	4.7 ohm, 1/6W, 5%, Metal Film
R827	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R828	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R829	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R830	VRMPTV6--183J-T	18K ohm, 1/6W, 5%, Metal Film
R831	VRMPTV6--683J-T	68K ohm, 1/6W, 5%, Metal Film
R832	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R833	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R834	VRMPTV6--105J-T	1M ohm, 1/6W, 5%, Metal Film
R835	VRMPTV6--912J-T	9.1K ohm, 1/6W, 5%, Metal Film
R836	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film
R837	VRMPTV6--332J-T	3.3K ohm, 1/6W, 5%, Metal Film
R838	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R839	VRMPTV6--333J-T	33K ohm, 1/6W, 5%, Metal Film
R840	VRCMTV2--561J-U	560 ohm, 1/2W, 5%, Carbon Film
R841	VRCMTV2--561J-U	560 ohm, 1/2W, 5%, Carbon Film
R842	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R843	VRMPTV6--104J-T	100K ohm, 1/6W, 5%, Metal Film

R846	VRMPTV6--103J-T	10K ohm, 1/6W, 5%, Metal Film
R904	VRMPTV4--4R7J-T	4.7 ohm, 1/4W, 5%, Metal Film
R905	VRNMK01--101J--	100 ohm, 1W, 5%, Metal Oxide Film
R906	VRLBK10--100J--	10 ohm, 10W, 5%, Cement
R907	VRCMTV2--224J-U	220K ohm, 1/2W, 5%, Carbon Film
R908	VRCMTV2--224J-U	220K ohm, 1/2W, 5%, Carbon Film
R909	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R910	VRMPTV4--223J-T	22K ohm, 1/4W, 5%, Metal Film
R911	VRCMTV2--101J-U	100 ohm, 1/2W, 5%, Carbon Film
R912	VRMPTV4--104J-T	100K ohm, 1/4W, 5%, Metal Film
R913	QJUM-1045D8150-	Jumper
R913A	VRCMTV2--101J-U	100 ohm, 1/2W, 5%, Carbon Film
R914	VRNMK01--560J--	56 ohm, 1W, 5%, Metal Oxide Film
R915	VRLCP10--102J--	1K ohm, 10W, 5%, Cement
R916	VRLCP10--102J--	1K ohm, 10W, 5%, Cement
R917	VRNMK03--333J--	33K ohm, 3W, 5%, Metal Film
R918	VRNMK03--333J--	33K ohm, 3W, 5%, Metal Film
R919	VRNRK02--104J--	100K ohm, 2W, 5%, Metal Film
R920	VRNRK02--823J--	82K ohm, 2W, 5%, Metal Film
R921	VRCMTV2--220J-U	22 ohm, 1/2W, 5%, Carbon Film
R922	VRMPTV4--101J-T	100 ohm, 1/4W, 5%, Metal Film
R923	VRCMTV2--101J-U	100 ohm, 1/2W, 5%, Carbon Film
R924	VRMPTV4--333G-T	33K ohm, 1/4W, 2%, Metal Film
R925	VRMPTV4--154J-T	150K ohm, 1/4W, 5%, Metal Film
R926	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R927	VRCMTV2--220J-U	22 ohm, 1/2W, 5%, Carbon Film
R928	VRCMTV2--120J-U	12 ohm, 1/2W, 5%, Carbon Film
R929	VRMPTV4--1R0J-T	1 ohm, 1/4W, 5%, Metal Film
R930	VRMPTV4--104J-T	100K ohm, 1/4W, 5%, Metal Film
R931	VRMPTV4--152J-T	1.5K ohm, 1/4W, 5%, Metal Film
R932	VRLLK02--R17J--	.17 ohm, 2W, 5%, Wire-Wound Fixed
R933	VRMPTV4--102J-T	1K ohm, 1/4W, 5%, Metal Film
R936	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R937	VRMPTV4--272J-T	2.7K ohm, 1/4W, 5%, Metal Film
R938	VRMPTV4--393G-T	39K ohm, 1/4W, 2%, Metal Film
R939	VRMPTV4--101J-T	100 ohm, 1/4W, 5%, Metal Film
R942	VRNMK01--223J--	22K ohm, 1W, 5%, Metal Oxide Film
R944	VRCMTV2--100J-U	10 ohm, 1/2W, 5%, Carbon Film
R946	VRMPTV4--122J-T	1.2K ohm, 1/4W, 5%, Metal Film
R947	VRMPTV4--152J-T	1.5K ohm, 1/4W, 5%, Metal Film
R948	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R949	VRMPTV4--222J-T	2.2K ohm, 1/4W, 5%, Metal Film
R950	VRCMTV2--433J-U	43K ohm, 1/2W, 5%, Carbon Film
R952	VRMPTV4--152J-T	1.5K ohm, 1/4W, 5%, Metal Film
R953	VRMPTV4--273J-T	27K ohm, 1/4W, 5%, Metal Film
R954	VRMPTV4--103J-T	10K ohm, 1/4W, 5%, Metal Film
R955	VRMPTV4--473J-T	47K ohm, 1/4W, 5%, Metal Film
R956	VRMPTV4--103J-T	10K ohm, 1/4W, 5%, Metal Film
R957	VRMPTV4--183J-T	18K ohm, 1/4W, 5%, Metal Film
R961	VRMPTV4--332J-T	3.3K ohm, 1/4W, 5%, Metal Film
R971	VRNMK01--561J--	560 ohm, 1W, 5%, Metal Oxide Film
R972	VRMPTV4--274G-T	270K ohm, 1/4W, 2%, Metal Film
R973	VRMPTV4--274G-T	270K ohm, 1/4W, 2%, Metal Film
R974	VRMPTV4--393G-T	39K ohm, 1/4W, 2%, Metal Film
R975	VRMPTV4--562G-T	5.6K ohm, 1/4W, 5%, Metal Film
R976	VRNMK02--332J--	3.3K ohm, 2W, 5%, Metal Oxide Film
R977	VRNMK02--332J--	3.3K ohm, 2W, 5%, Metal Oxide Film
R978	VRCMTV2--154J-U	150K ohm, 1/2W, 5%, Carbon Film

R979	VRCMTV2--154J-U	150K ohm, 1/2W, 5%, Carbon Film
R980	VRMPTV4--203J-T	20K ohm, 1/4W, 5%, Metal Film
R981	VRMPTV4--104J-T	100K ohm, 1/4W, 5%, Metal Film
SG150	QSPG-1022D8---U	Spark Gap
SG250	QSPG-1022D8---U	Spark Gap
SG350	QSPG-1022D8---U	Spark Gap
SG450	QSPG-1022D8---U	Spark Gap
SG451	QSPG-1019D8---A	SPARK Gap
SR801	VSSBT169B----3P	BT169B SCR
SR901	VSSMCR218-6----	MCR218-6 SCR
SR902	VSSBT169B----3P	BT169B SCR
SV901	VSQENB461D14A--	Thermistor
SW901	QSW-P1239D8----	AC Switch
SW902	QSW-P1231D8----	Switch
S001	QSW-A1073D8----	Switch
S002	QSW-A1073D8----	Switch
S003	QSW-A1073D8----	Switch
S004	QSW-A1073D8----	Switch
S005	QSW-A1073D8----	Switch
S006	QSW-A1073D8----	Switch
S007	QSW-A1073D8----	Switch
S008	QSW-A1073D8----	Switch
S009	QSW-A1073D8----	Switch
S010	QSW-A1073D8----	Switch
S011	QSW-A1073D8----	Switch
S012	QSW-A1073D8----	Switch
S013	QSW-A1073D8----	Switch
S014	QSW-A1073D8----	Switch
S015	QSW-A1073D8----	Switch
S016	QSW-S1113D8----	Switch
TP601	QPIN-0992-1----	Tip
TP701	QPIN-0992-1----	Tip
TP703	QPIN-0992-1----	Tip
TP704	QPIN-0992-1----	Tip
T501	RTRNL1008D8----	H-dynamic Focus Transformer
T701	RTRNL1007D8----	PWB B+ Transformer
T702	DFBTEC038-1460-	FBT
T703	ROPTH1040D8----	H-drive Transformer
T801	RCVTP3096D8----	Power Converter
T901	RCVTP3090D8---B	Power Converter
T902	RTRNL1004D8----	Isolation Transformer
VR101	RVRSV6012-1503-	Second Source
VR101	RVRSV6021D8503-	50K ohm,pot., B Bias
VR201	RVRSV6012-1503-	Second Source
VR201	RVRSV6021D8503-	50K ohm,pot., R Bias
VR301	RVRSV6012-1503-	Second Source
VR301	RVRSV6021D8503-	50K ohm,pot., G Bias
VR501	RVRSH6013-1204A	Second Source
VR501	RVRSH6022D8204-	200K ohm,pot., V-dynamic
VR521	RVRSV6012-1502-	Second Source
VR521	RVRSV6022D8502-	5K ohm,pot., H-dynamic
VR613	RVRSH6013-1202A	Second Source
VR613	RVRSH6022D8202-	2K ohm,pot., V-lin
VR615	RVRSH6013-1202A	Second Source
VR615	RVRSH6022D8202-	2K ohm,pot., Paralle
VR630	RVRSH6013-1202A	Second Source
VR630	RVRSH6022D8202-	2K ohm,pot., H-size
VR641	RVRSH6013-1202A	Second Source

VR641	RVRSH6022D8202-	2K ohm,pot., V-hold
VR645	RVRSH6013-1204A	Second Source
VR645	RVRSH6022D8204-	200K ohm,pot., V-center
VR669	RVRSH6022D8202-	2K ohm,pot., Keystone
VR669	RVRSH6013-1202A	Second Source
VR683	RVRSH6013-1204A	Second Source
VR683	RVRSH6022D8204-	200K ohm,pot., Side Pin
VR7A6	RVRSH6013-1103A	Second Source
VR7A6	RVRSH6022D8103-	10K ohm,pot., H-center
VR7C6	RVRSH6013-1104A	Second Source
VR7C6	RVRSH6022D8104-	100K ohm,pot., HV. Adj.
VR709	RVRSH6013-1202A	Second Source
VR709	RVRSH6022D8202-	2K ohm,pot., H-F to V
VR709	RVRSH6030D8222-	Second Source
VR754	RVRSH6013-1501A	Second Source
VR754	RVRSH6022D8501-	500 ohm,pot., H-hold
VR754	RVRSH6030D8471-	Second Source
VR793	RVRSH6013-1204A	Second Source
VR793	RVRSH6022D8204-	200K ohm,pot., ABL Adj.
VR901	RVRSH8102-8102-	1K ohm,pot., B+ Adj.
X001	RCRSL1115D8----	12 MHz Crystal
ZD001	VSZRD6.2EB1---T	RD6.2EB1 Zener Diode 6.2V 0.5W
ZD002	VSZHZ2B3------T	HZ2B3 Zener Diode 2V 0.5W
ZD003	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD004	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD005	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD006	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD007	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD008	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD009	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD010	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD011	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD012	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD013	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD014	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD015	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD016	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD017	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD018	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD019	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD020	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD021	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD022	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD023	VSZRD5.1EB----T	RD5.1EB Zener Diode 5.1V 0.5W
ZD024	VSZRD5.1EB1---T	RD5.1EB1 Zener Diode 5.1V 0.5W
ZD101	VSZHZ12B1-----T	HZ12B1 Zener Diode 12V 0.5W
ZD201	VSZHZ12B1-----T	HZ12B1 Zener Diode 12V 0.5W
ZD301	VSZHZ12B1-----T	HZ12B1 Zener Diode 12V 0.5W
ZD401	VSZHZ5C1------T	HZ5C1 Zener Diode 5V 0.5W
ZD602	VSZRD3.3EB1---T	RD3.3EB1 Zener Diode 3.3V 0.5W
ZD701	VSZRD3.3EB1---T	RD3.3EB1 Zener Diode 3.3V 0.5W
ZD702	VSZRD18EB3----T	RD18EB3 Zener Diode 18V 0.5W
ZD703	VSZRD12EB1----T	RD12EB1 Zener Diode 12V 0.5W
ZD704	VSZRD5.1EB1---T	RD5.1EB1 Zener Diode 5.1V 0.5W
ZD705	VSZRD5.1EB1---T	RD5.1EB1 Zener Diode 5.1V 0.5W
ZD706	VSZRD12EB1----T	RD12EB1 Zener Diode 12V 0.5W
ZD707	VSZRD24EB1----T	RD24EB1 Zener Diode 24V 0.5W
ZD708	VSZRD24EB1----T	RD24EB1 Zener Diode 24V 0.5W

ZD712	VSZRD24EB1----T	RD24EB1 Zener Diode 24V 0.5W
ZD713	VSZRD5.1EB1---T	RD5.1EB1 Zener Diode 5.1V 0.5W
ZD714	VSZRD5.1EB1---T	RD5.1EB1 Zener Diode 5.1V 0.5W
ZD715	VSZRD10EB1----T	RD10EB1 Zener Diode 10V 0.5W
ZD716	VSZRD24EB1----T	RD24EB1 Zener Diode 24V 0.5W
ZD801	VSZRD22EB-----T	RD22EB Zener Diode 22V 0.5W
ZD802	VSZRD22EB-----T	RD22EB Zener Diode 22V 0.5W
ZD803	VSZRD5.6EB2---T	RD5.6EB2 Zener Diode 5.6V 0.5W
ZD804	VSZRD10EB-----T	RD10EB Zener Diode 10V 0.5W
ZD805	VSZRD10EB-----T	RD10EB Zener Diode 10V 0.5W
ZD901	VSZRD22EB1----T	RD22EB1 Zener Diode 22V 0.5W
ZD902	VSZRD22EB1----T	RD22EB1 Zener Diode 22V 0.5W
ZD903	VSZ1N5245B----T	1N5245B Zener Diode 15V 0.5W
ZD904	VSZ1N5245B----T	1N5245B Zener Diode 15V 0.5W
ZD971	VSZRD7.5EB2---T	RD7.5EB2 Zener Diode 7.5V 0.5W
ZD972	VSZRD18EB3----T	RD18EB3 Zener Diode 18V 0.5W
ZD973	VSZHZ36-1-----T	HZ36-1 Zener Diode 36V 0.5W